

FIG. 1

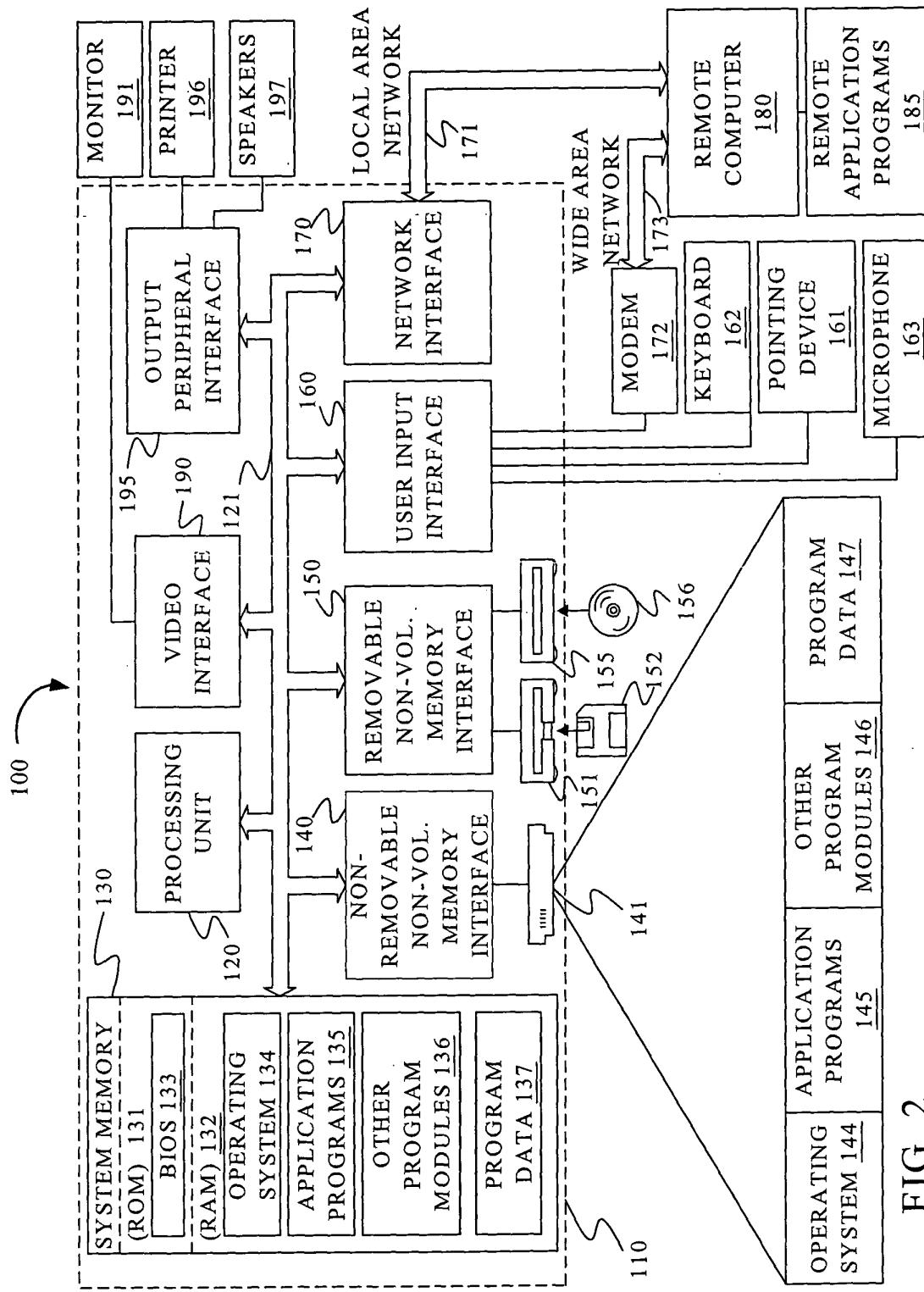


FIG. 2

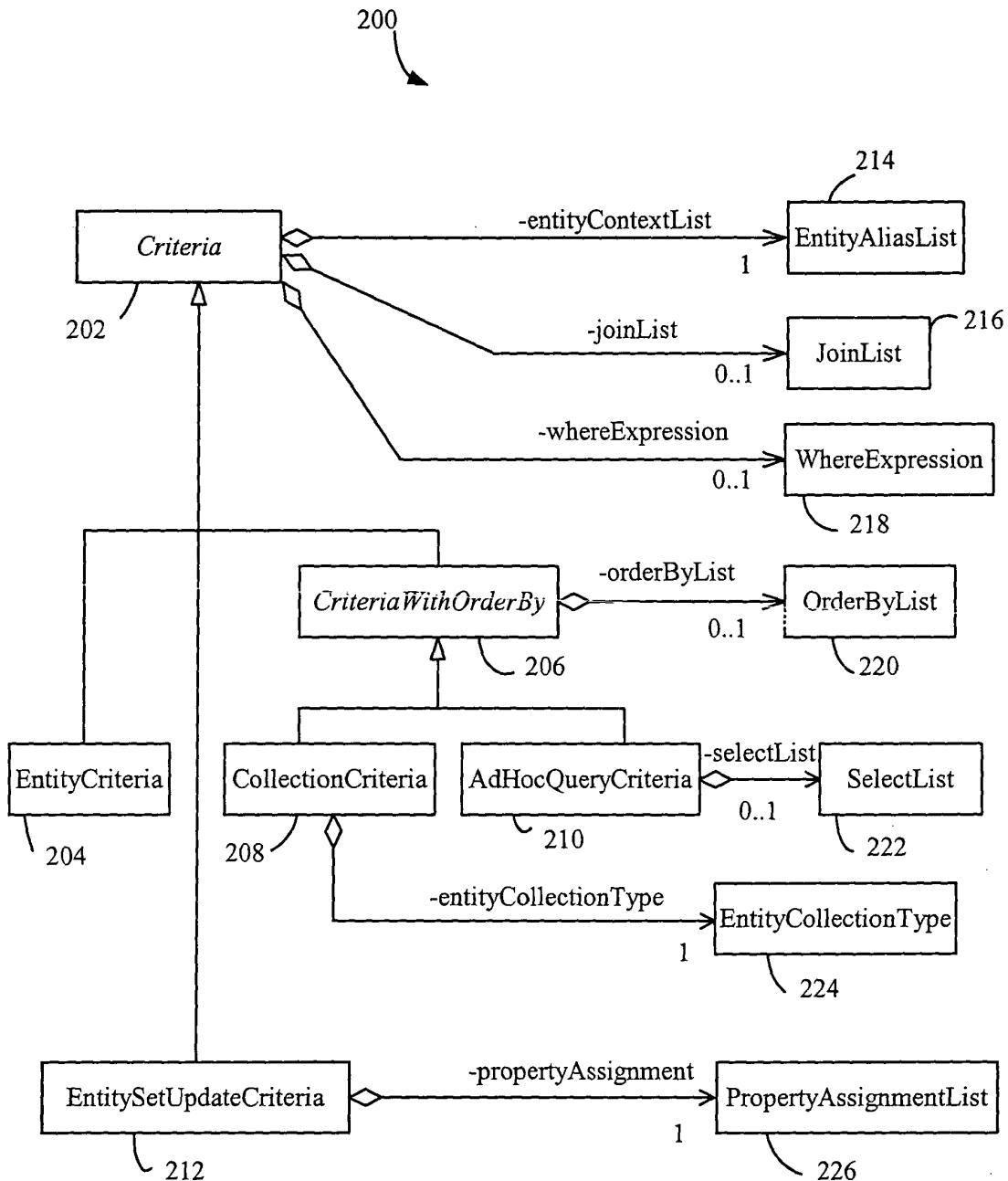


FIG. 3

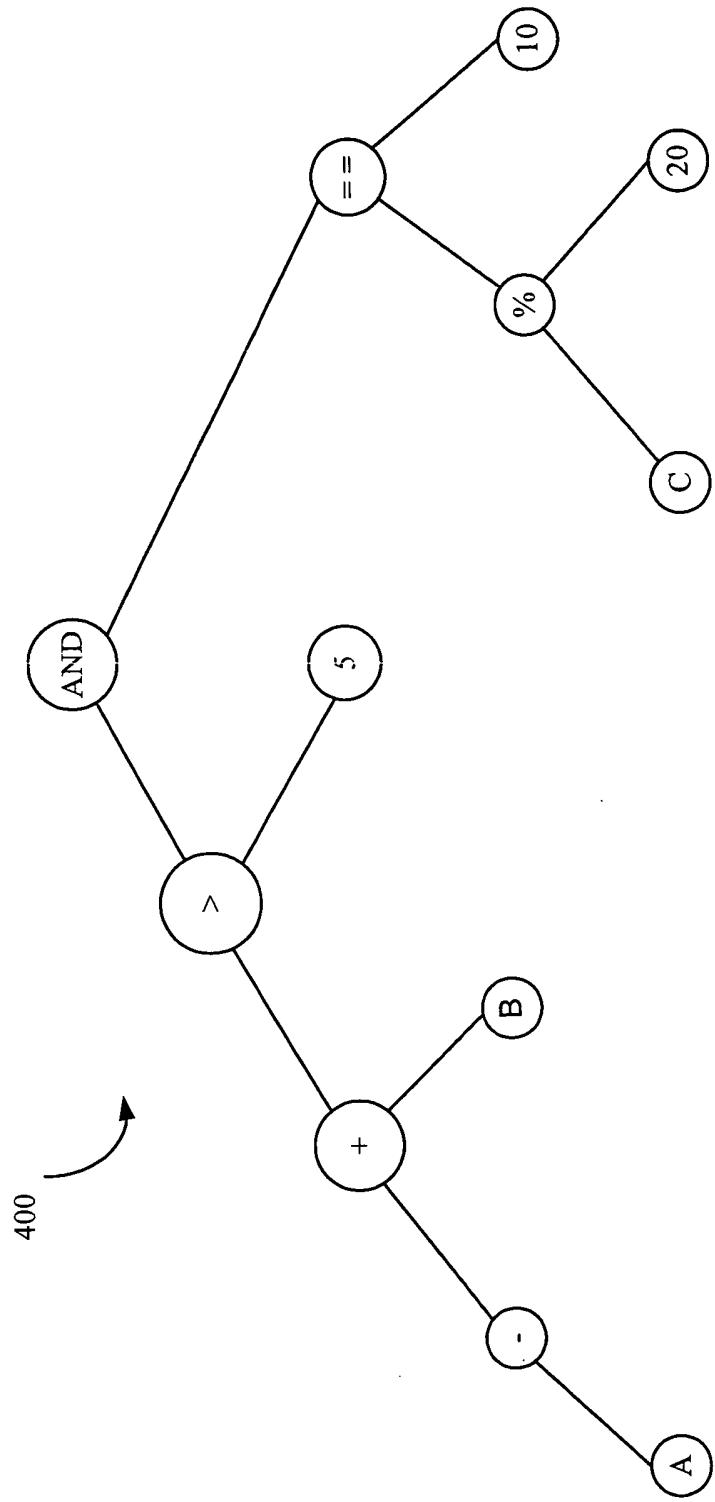


FIG. 4A

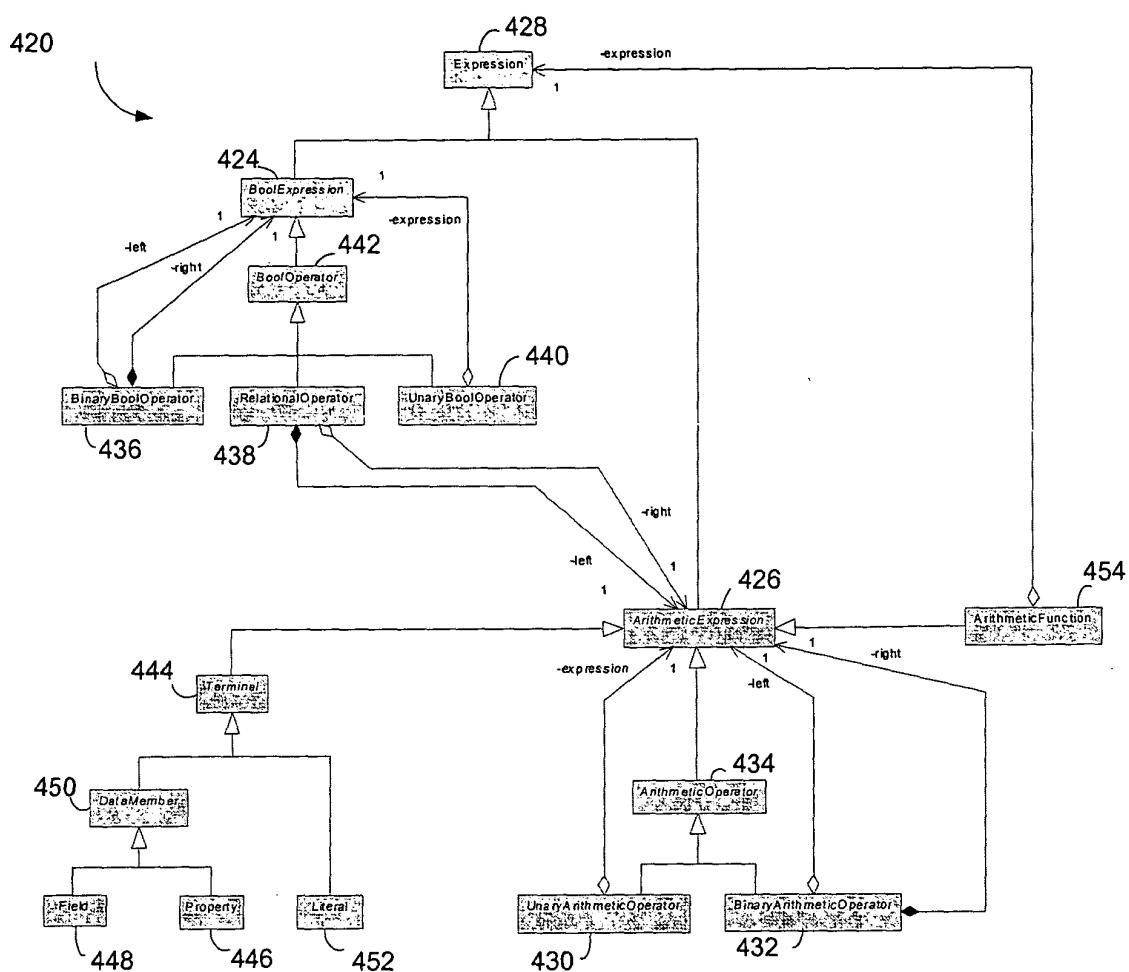


FIG. 4B

**FIG. 4C**

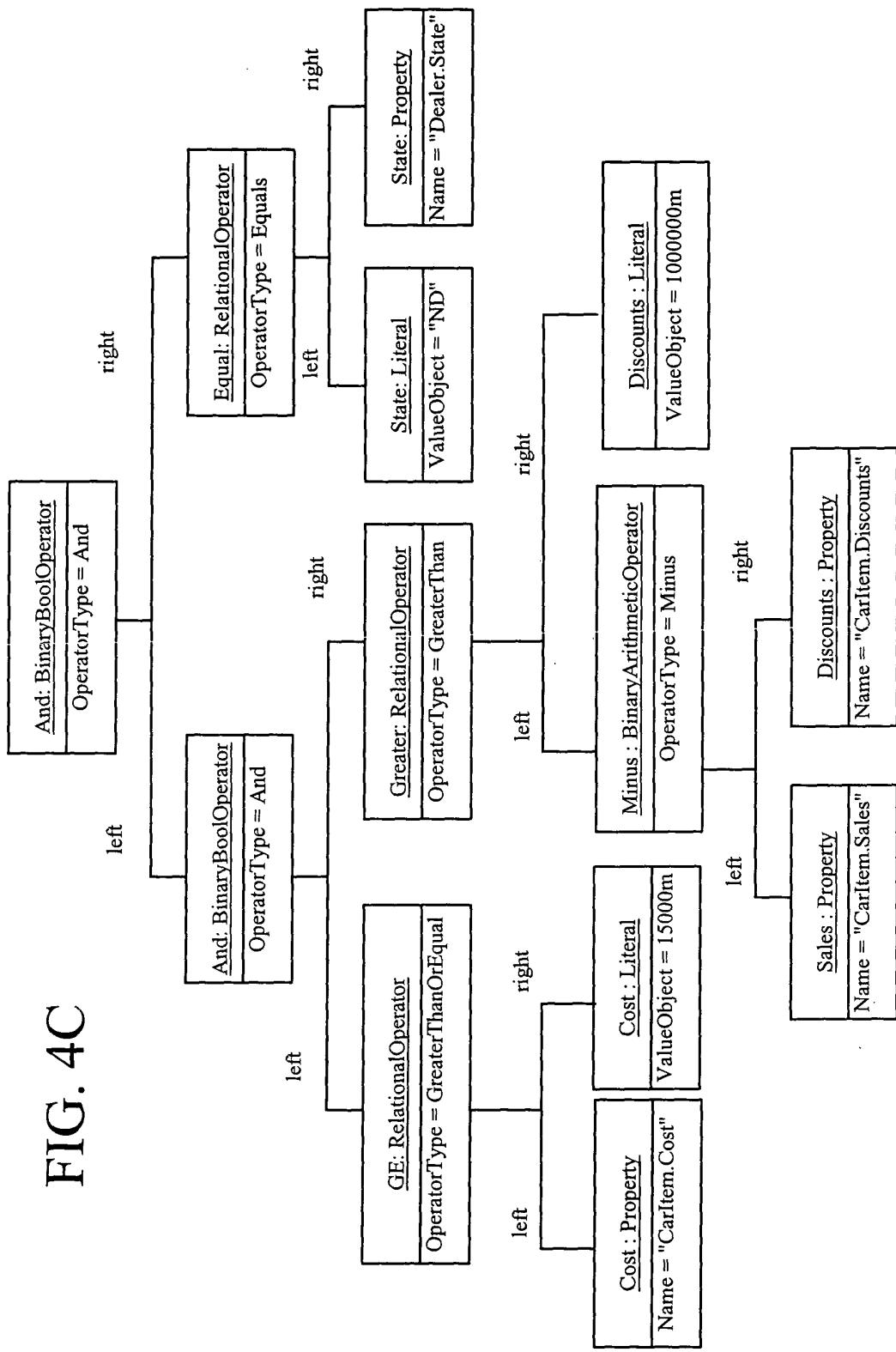
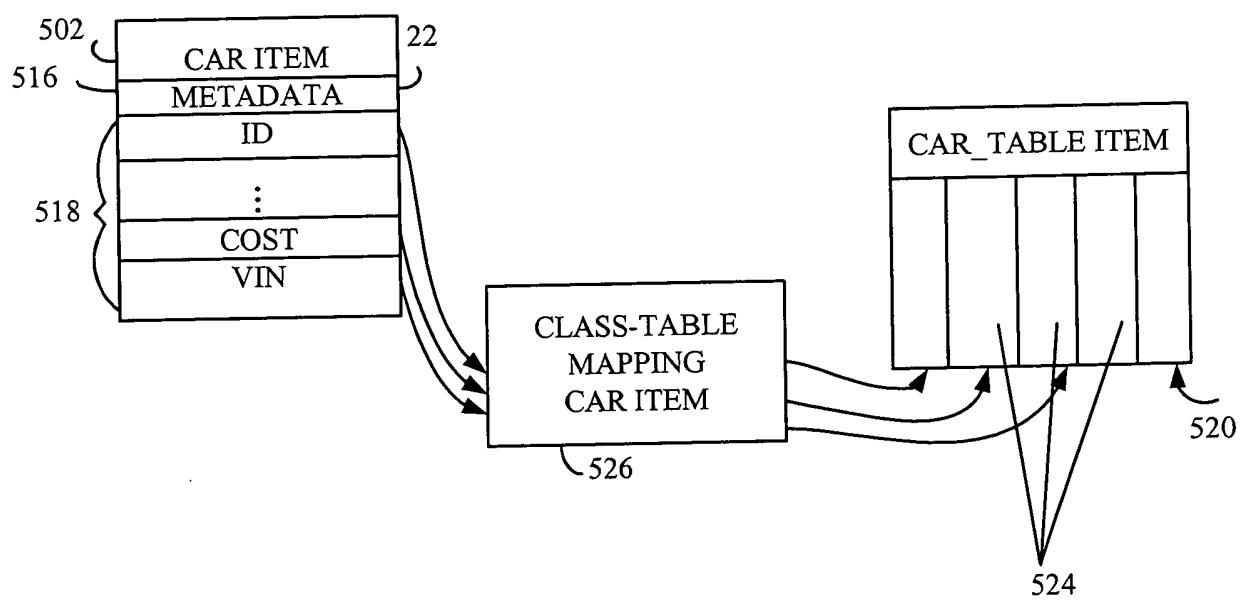
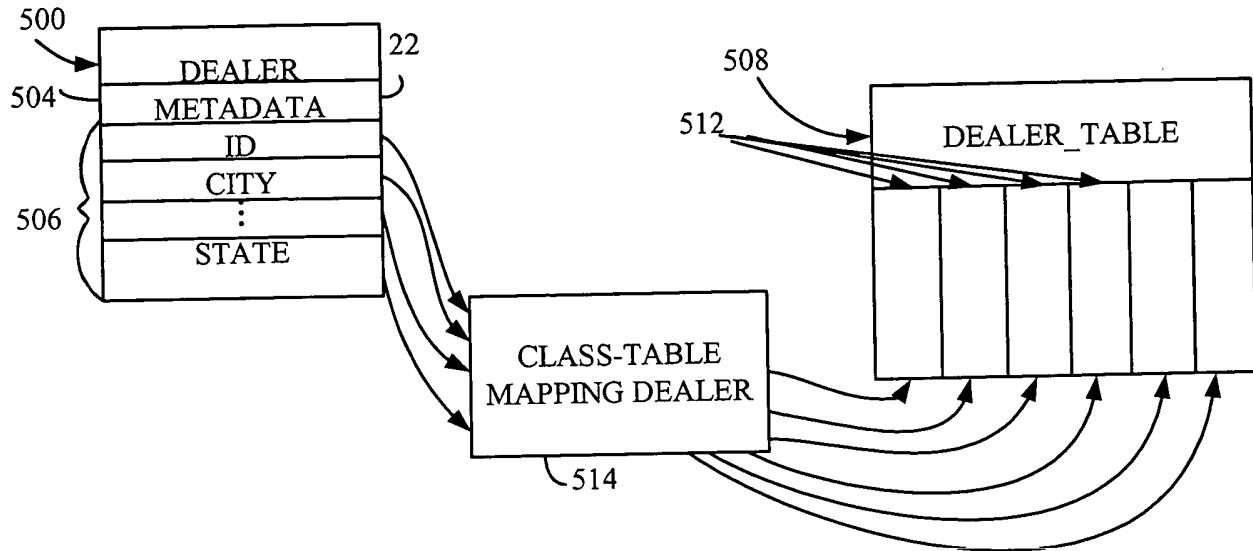


FIG. 5



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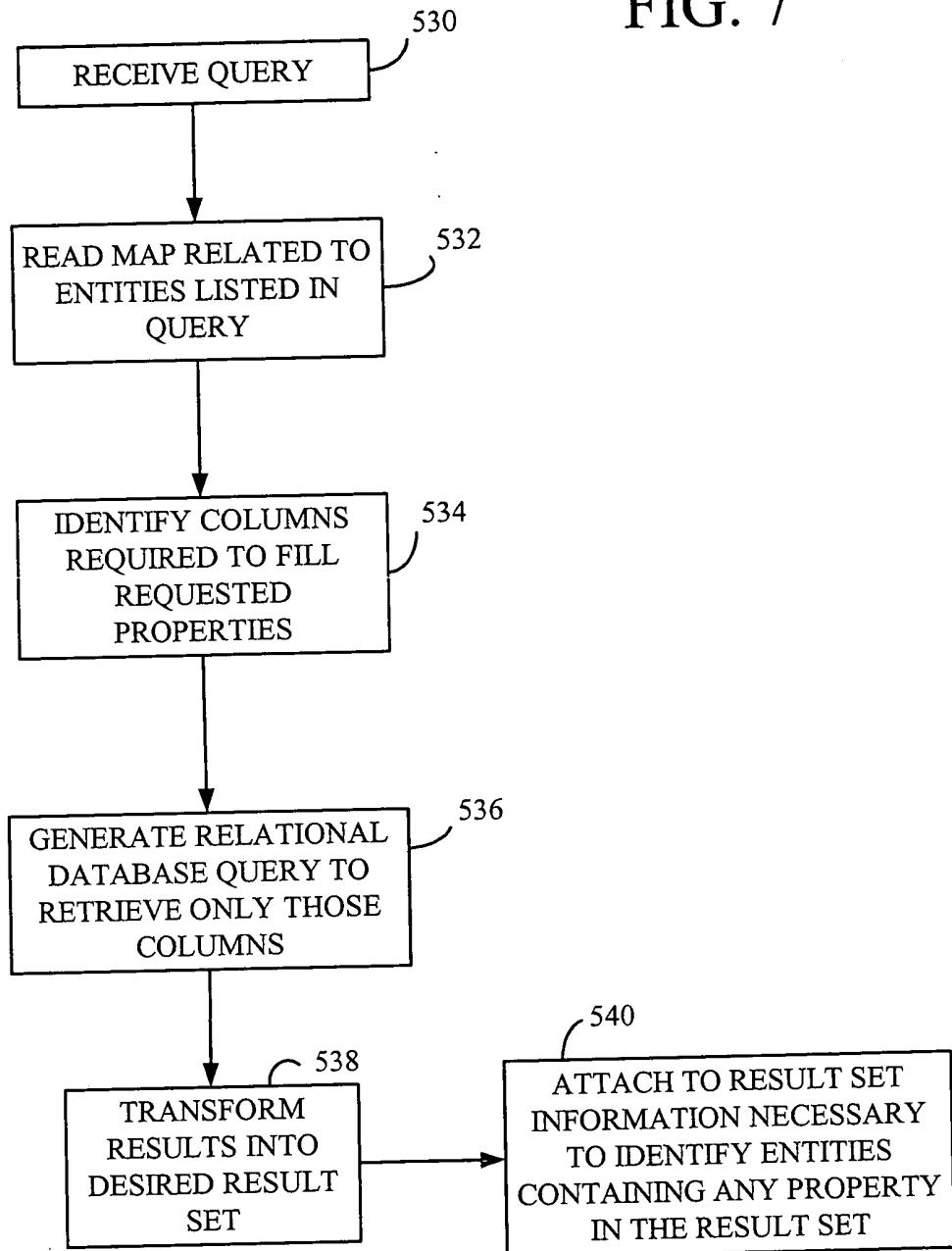
class CarItem {           // these properties are mapped to a database table
    public string ID;
    public string Vin;
    public string Color;
    public decimal Cost;
    ... many others omitted ...
}
class Dealer {           // these properties are mapped to a different database table
    public string ID;
    public string City;
    public string State;
    ... many others omitted ...
}

AdHocQueryCriteria adHocCriteria = Criteria.AdHocQueryCriteria(
    Criteria.EntityAliases( // describes the objects involved in the query
        Criteria.EntityAlias(itemParentKey, typeof(CarItem))
        Criteria.EntityAlias(dealerParentKey, typeof(Dealer)) ),
    Criteria.JoinList(
        /* entity to entity join */
        Criteria.InnerJoin("CarItem", "Dealer",
            (Property)"CarItem.DealerID" == (Property)"Dealer.ID")),
    Criteria.Select( // the specific properties to retrieve
        (Property)"CarItem.ID", // references the field in the above class
        (Property)"CarItem.Vin",
        (Property)"CarItem.Cost",
        (Property)"Dealer.ID",
        (Property)"Dealer.City",
        (Property)"Dealer.State"),
    Criteria.Where(
        (Property)"CarItem.Make" == "Geo" &&
        (Property)"CarItem.Model" == "Prism" &&
        (Property)"Dealer.State" == "ND")
    Criteria.OrderBy((Property)"Dealer.Cost"));

```

FIG. 6

FIG. 7



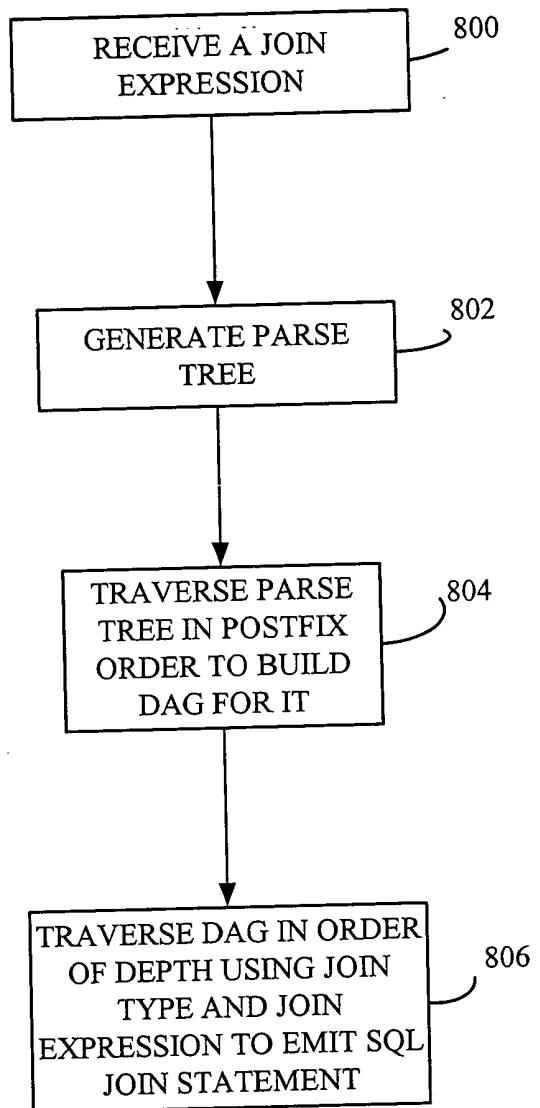


FIG. 8

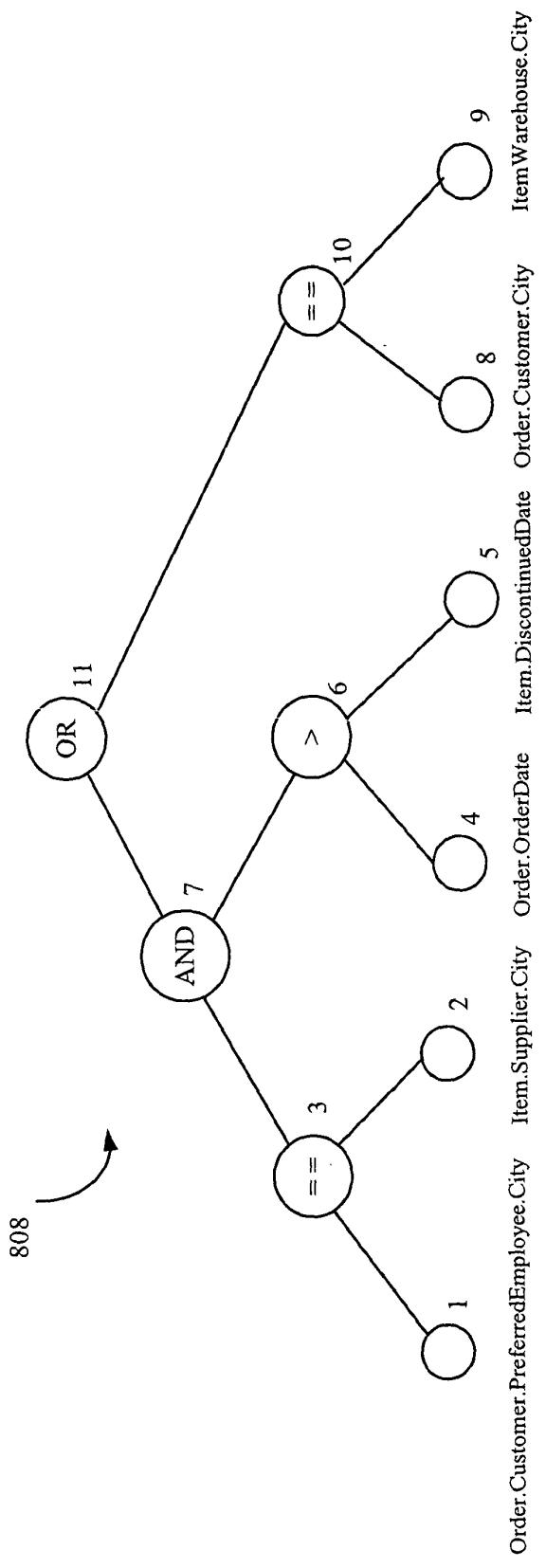
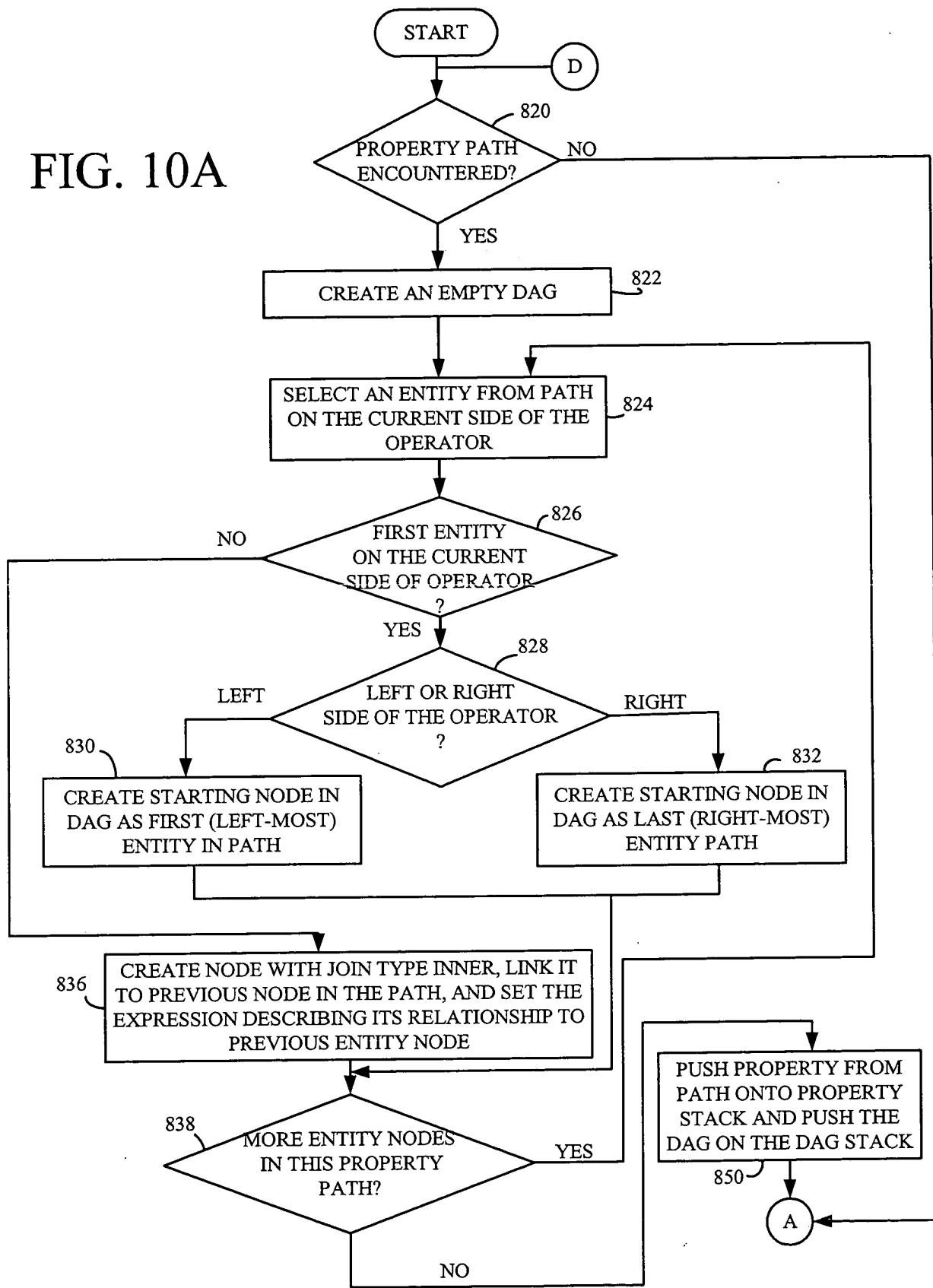


FIG. 9

FIG. 10A



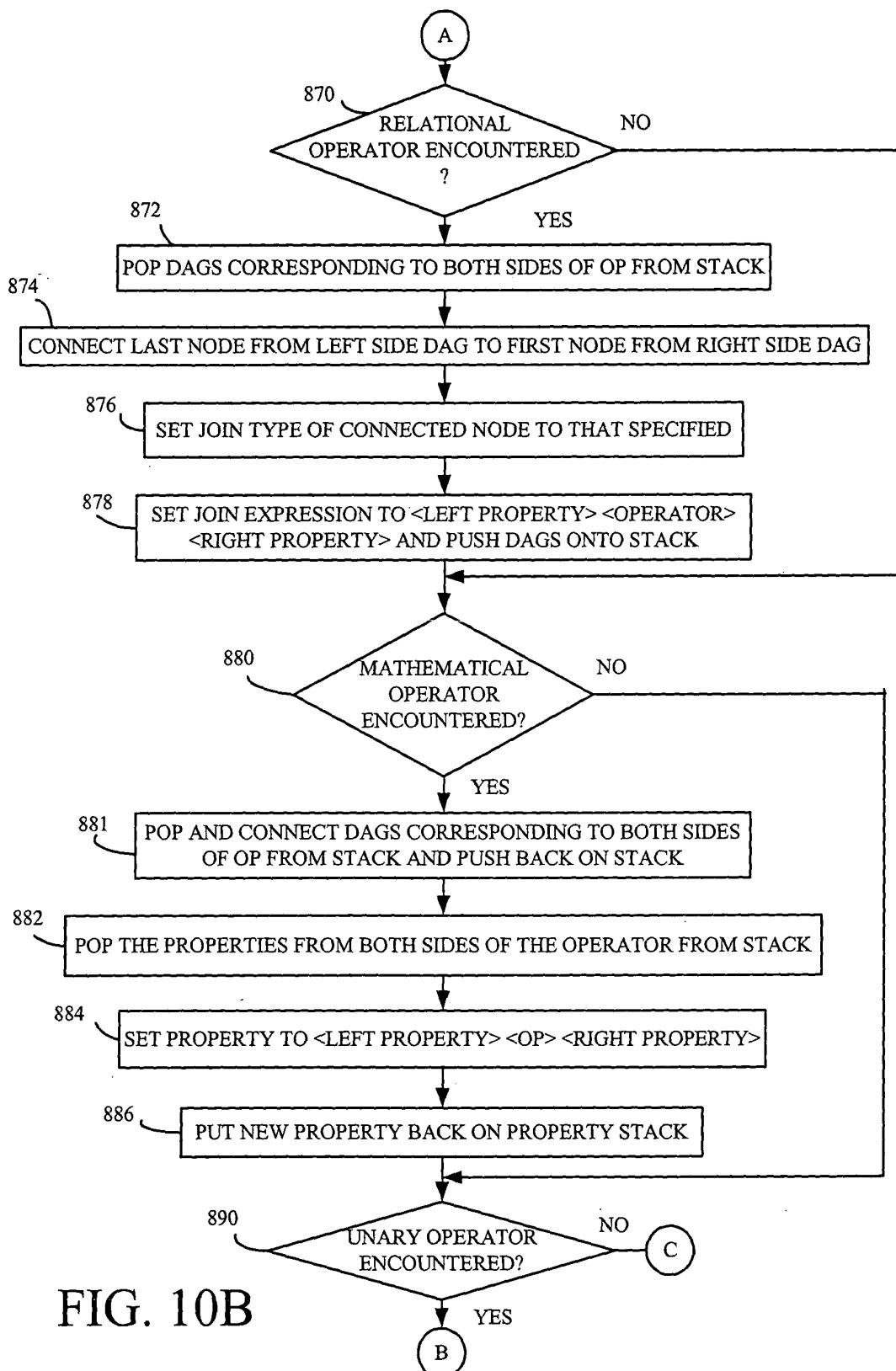


FIG. 10B

FIG. 10C-1

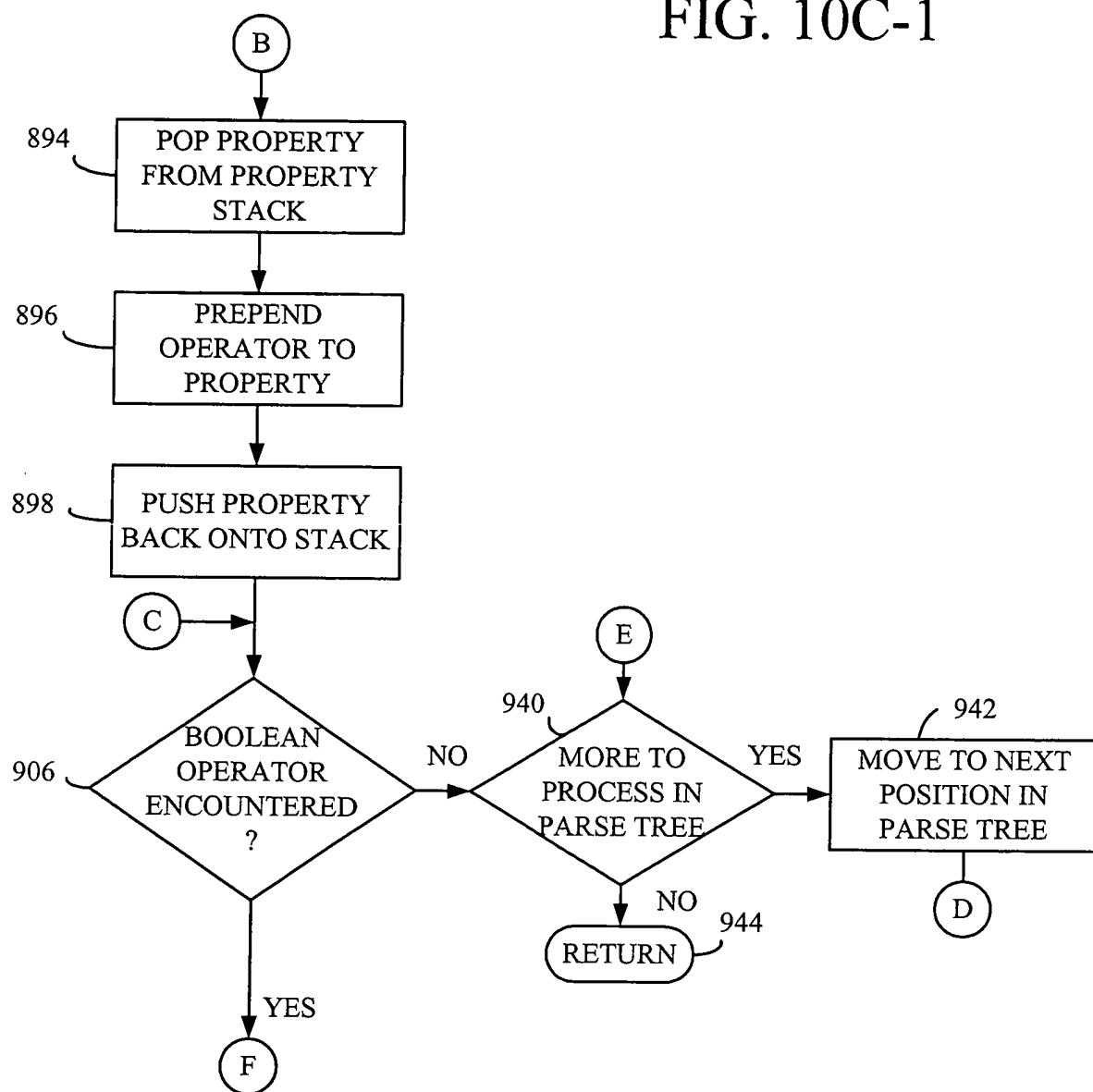
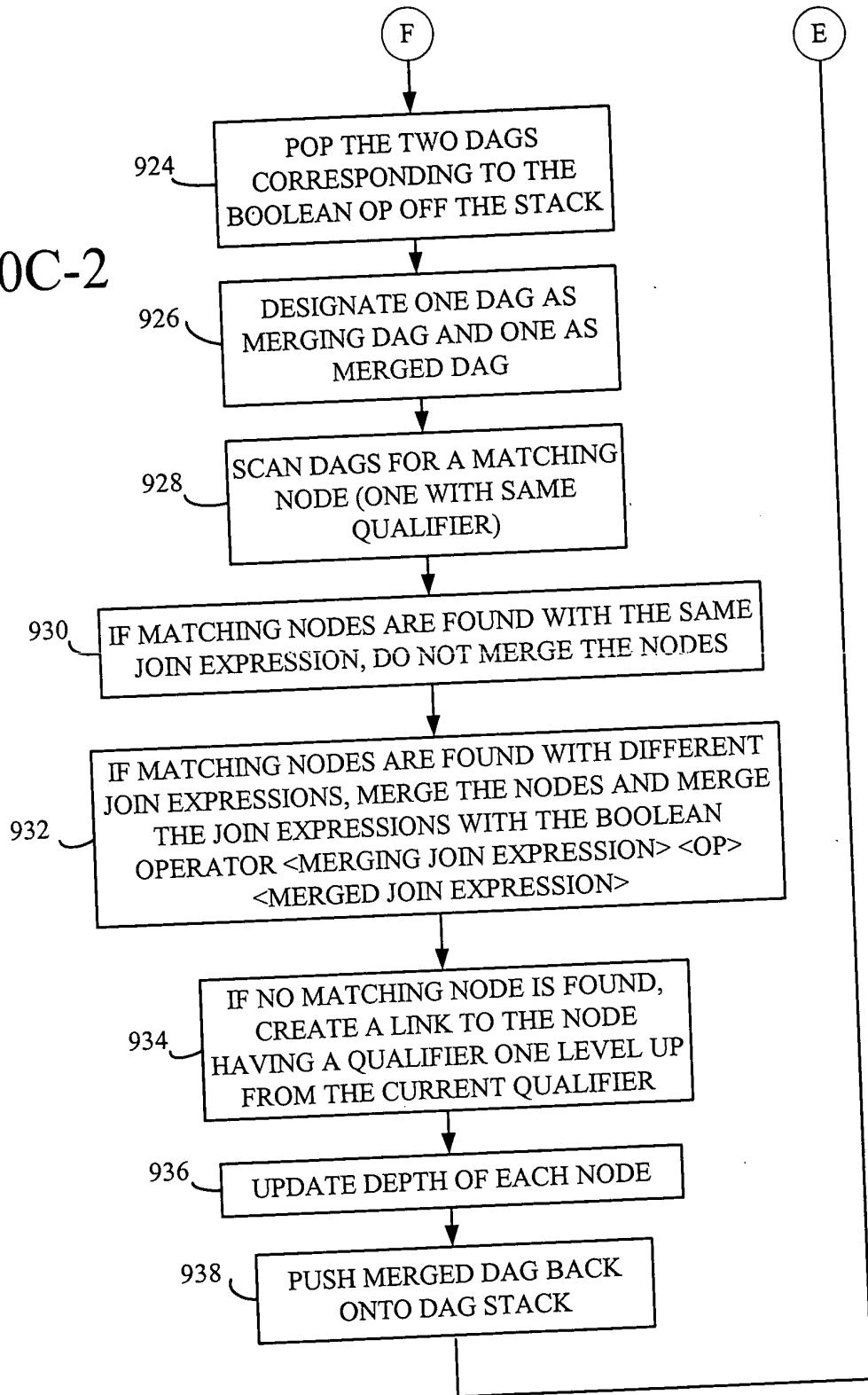


FIG. 10C-2



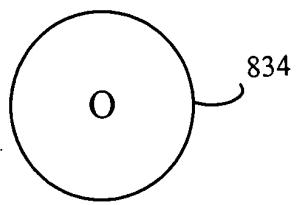


FIG. 11A

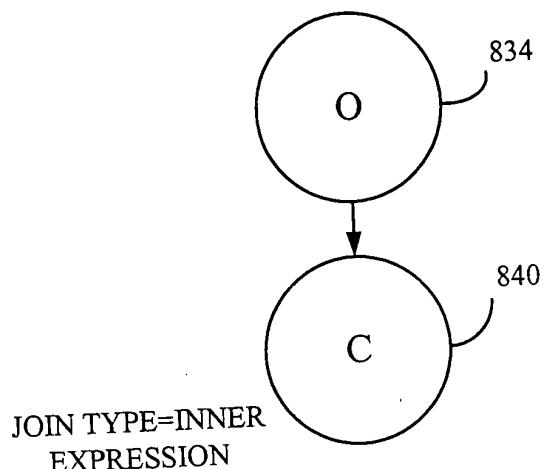


FIG. 11B

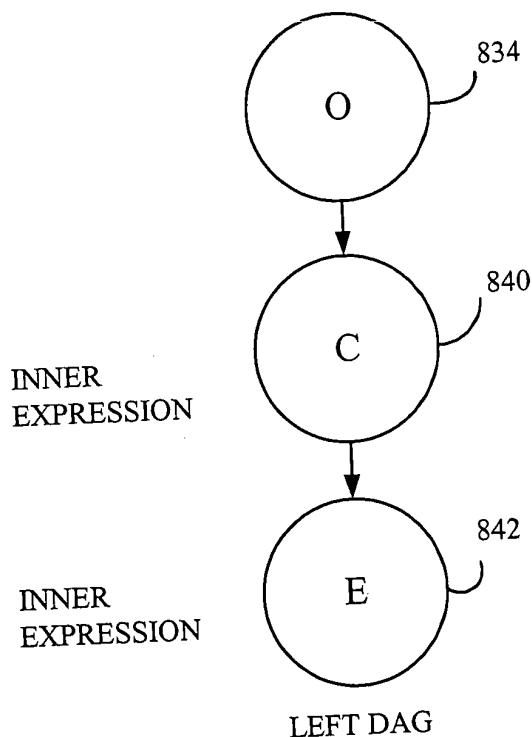


FIG. 11C

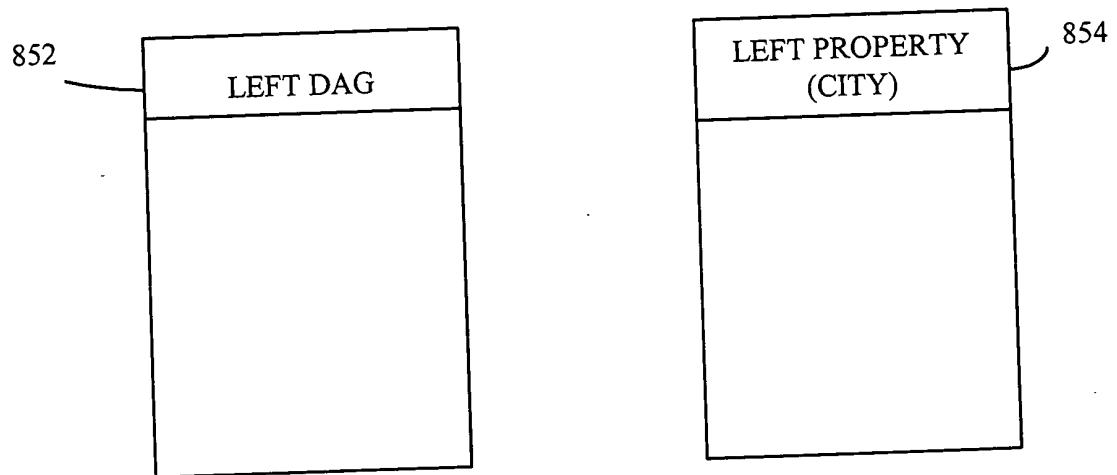


FIG. 11D

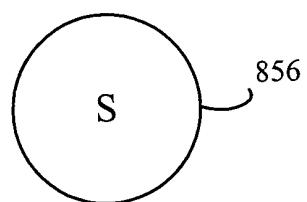


FIG. 11E

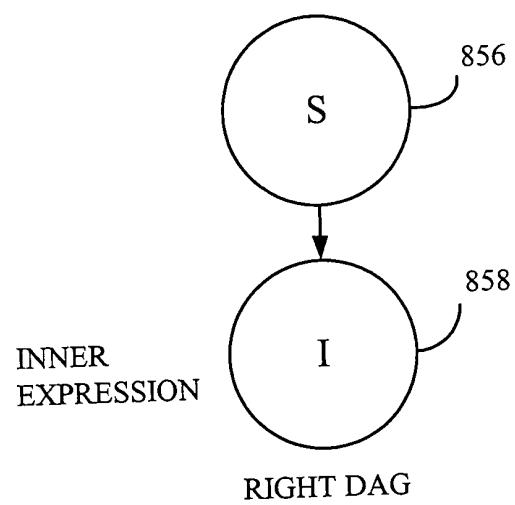
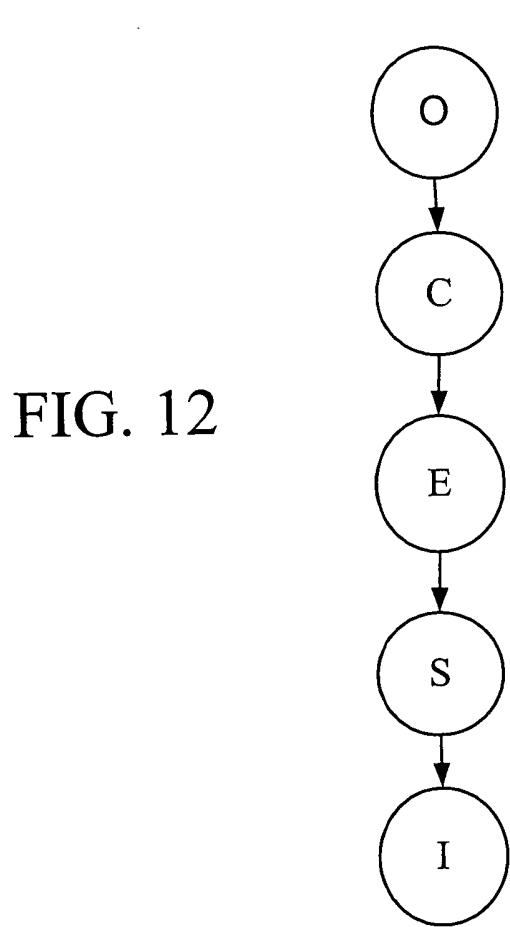
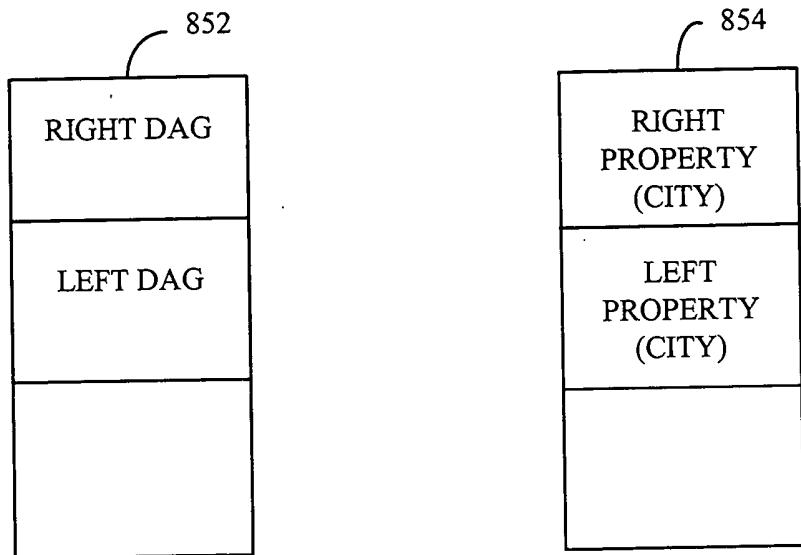


FIG. 11F



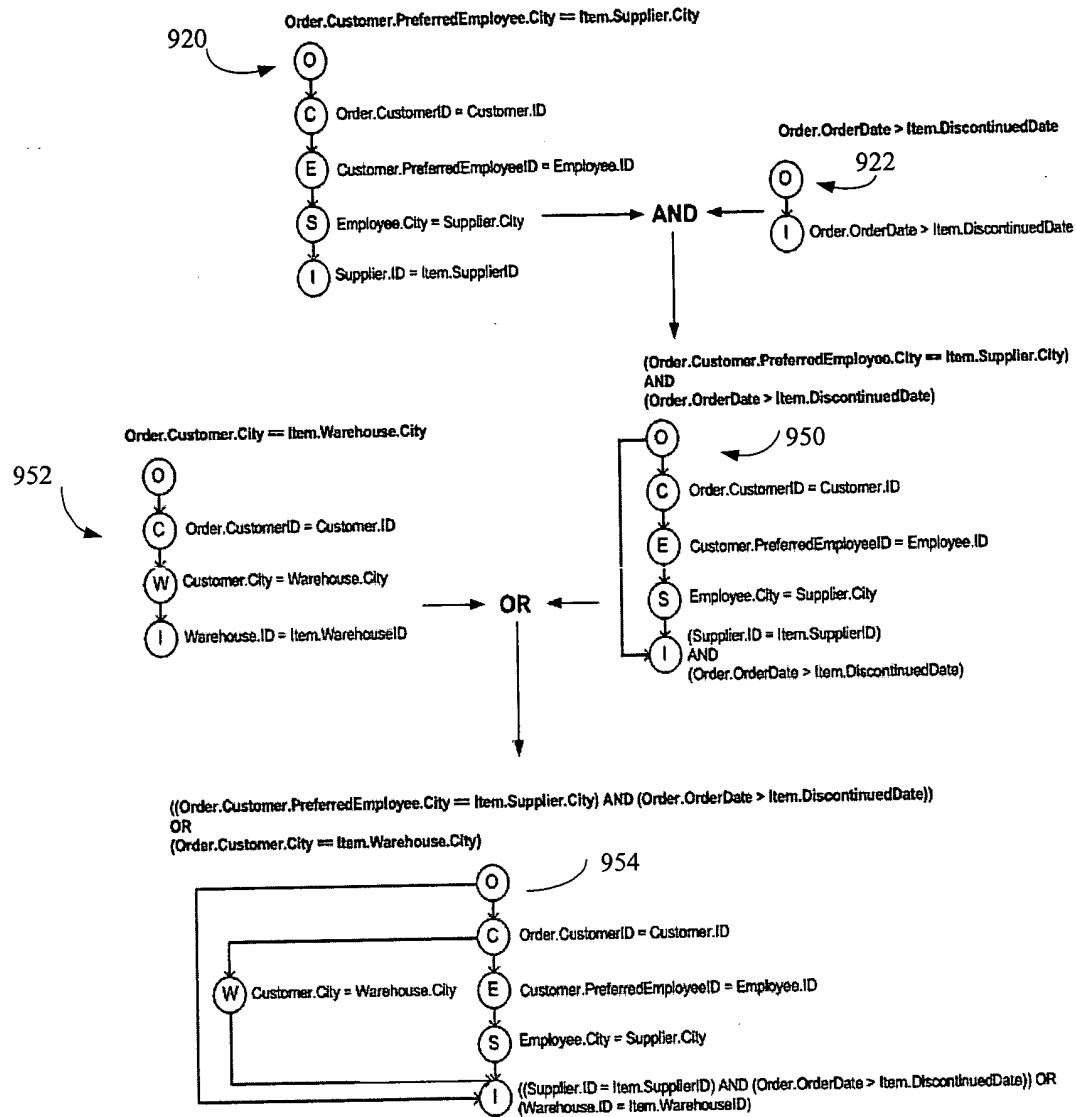


FIG. 13

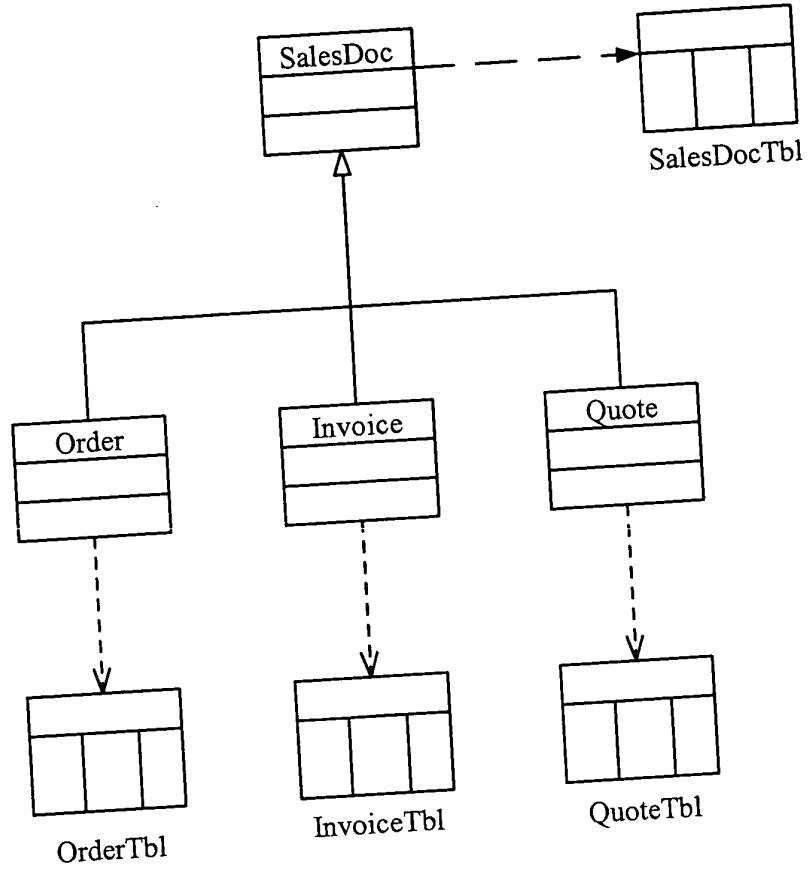


FIG. 14

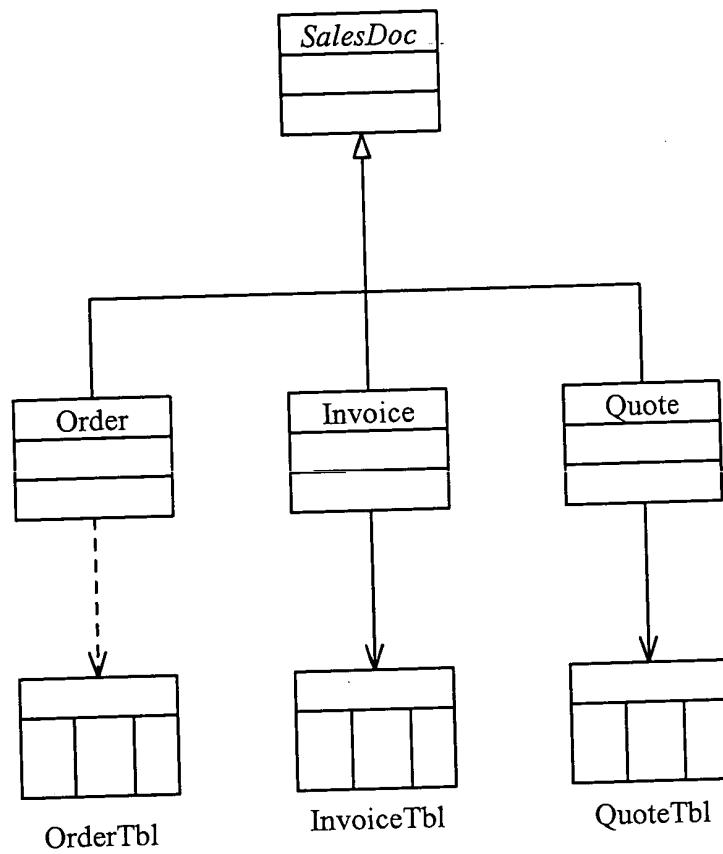


FIG. 15

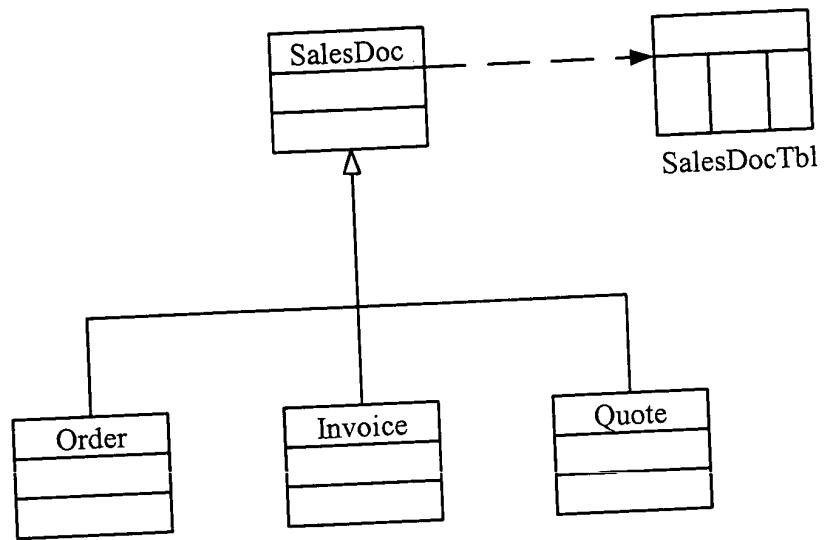


FIG. 16

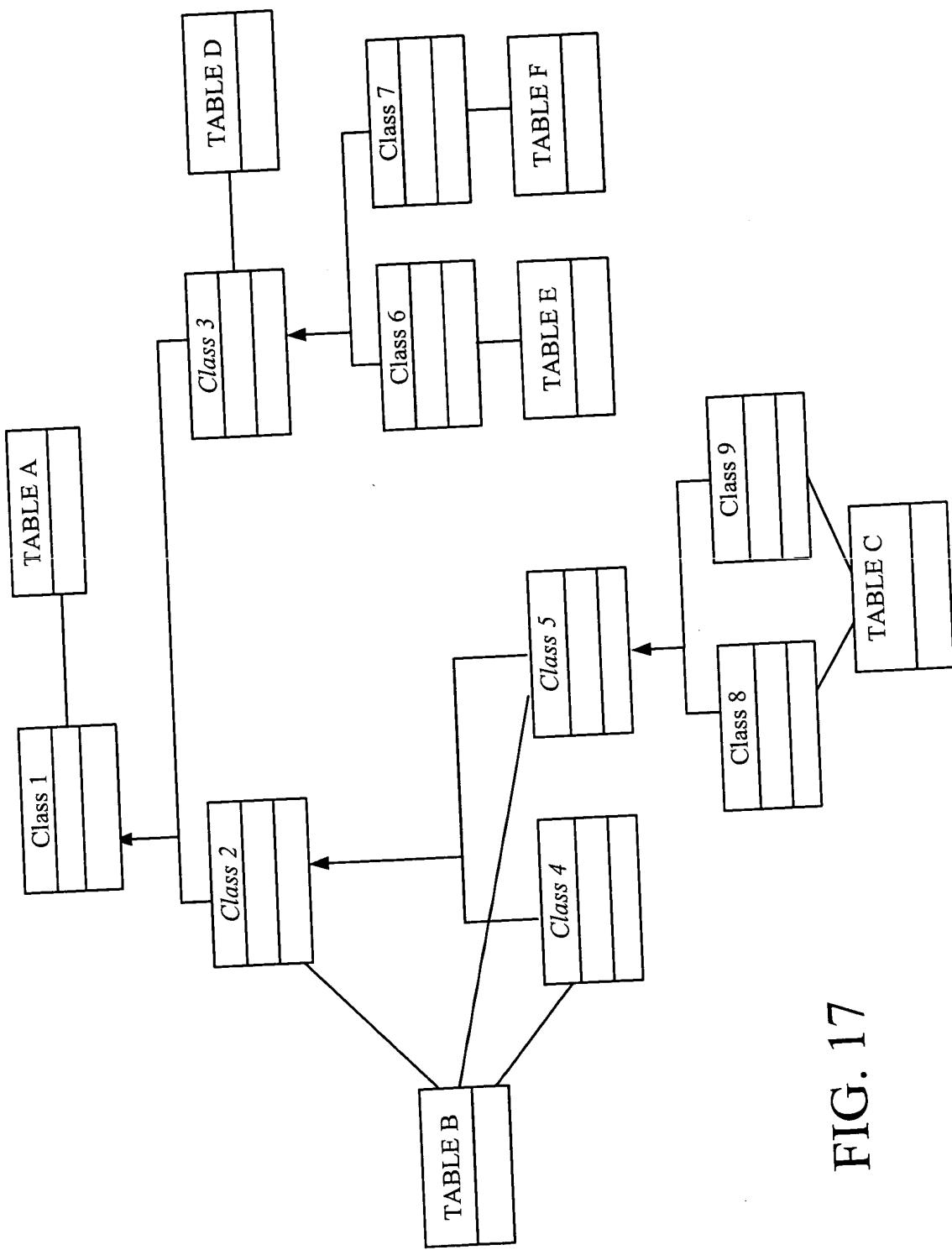


FIG. 17

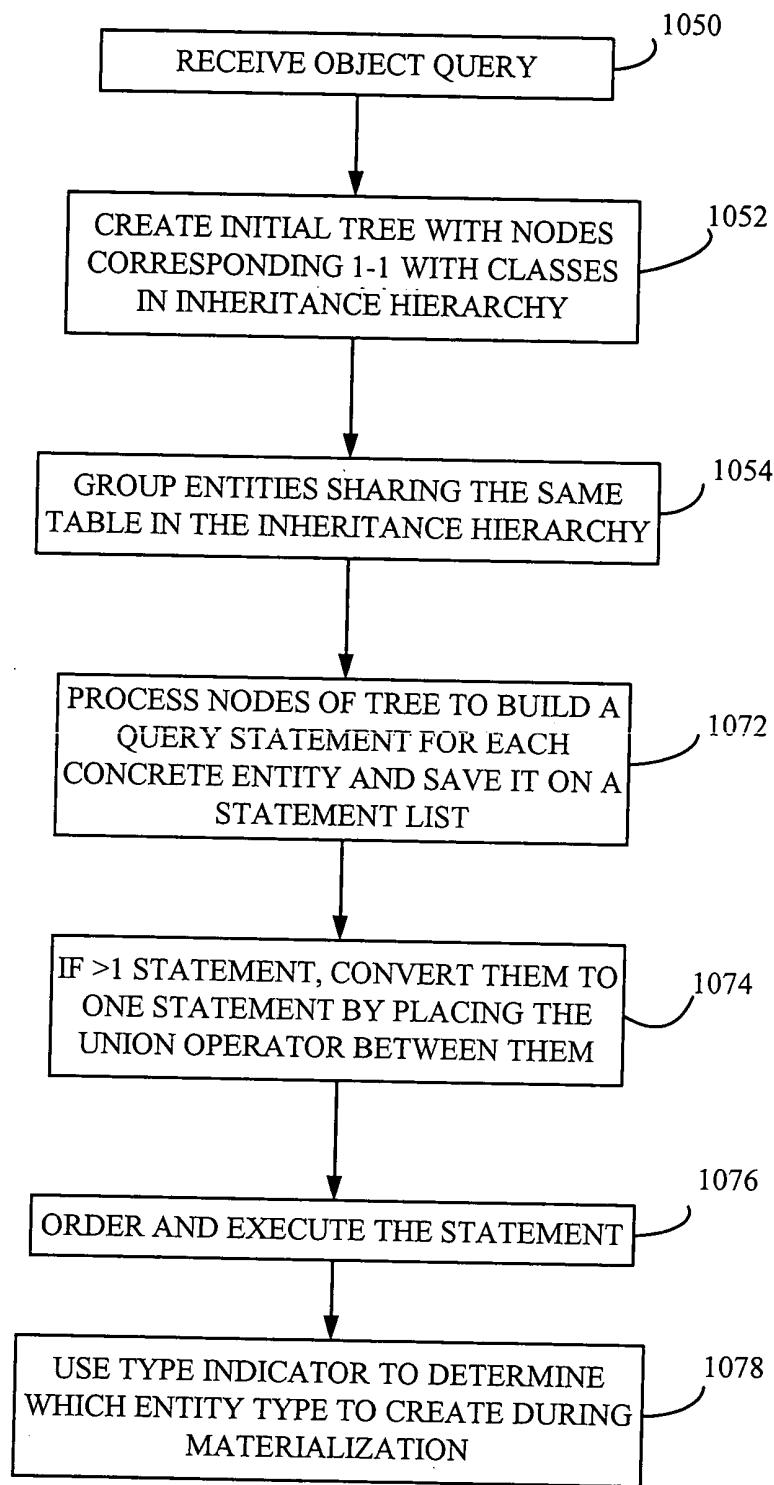


FIG. 18

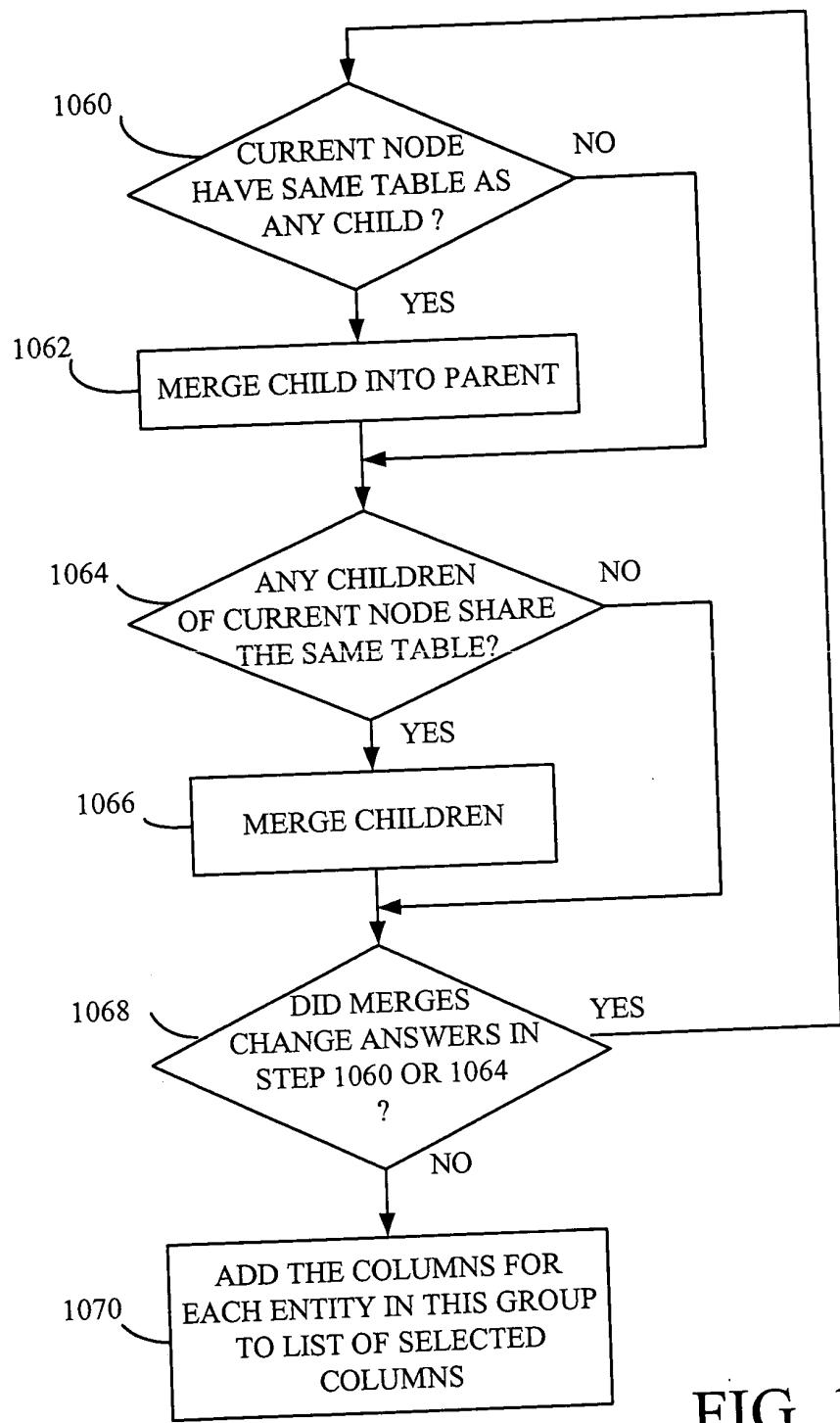


FIG. 18-1

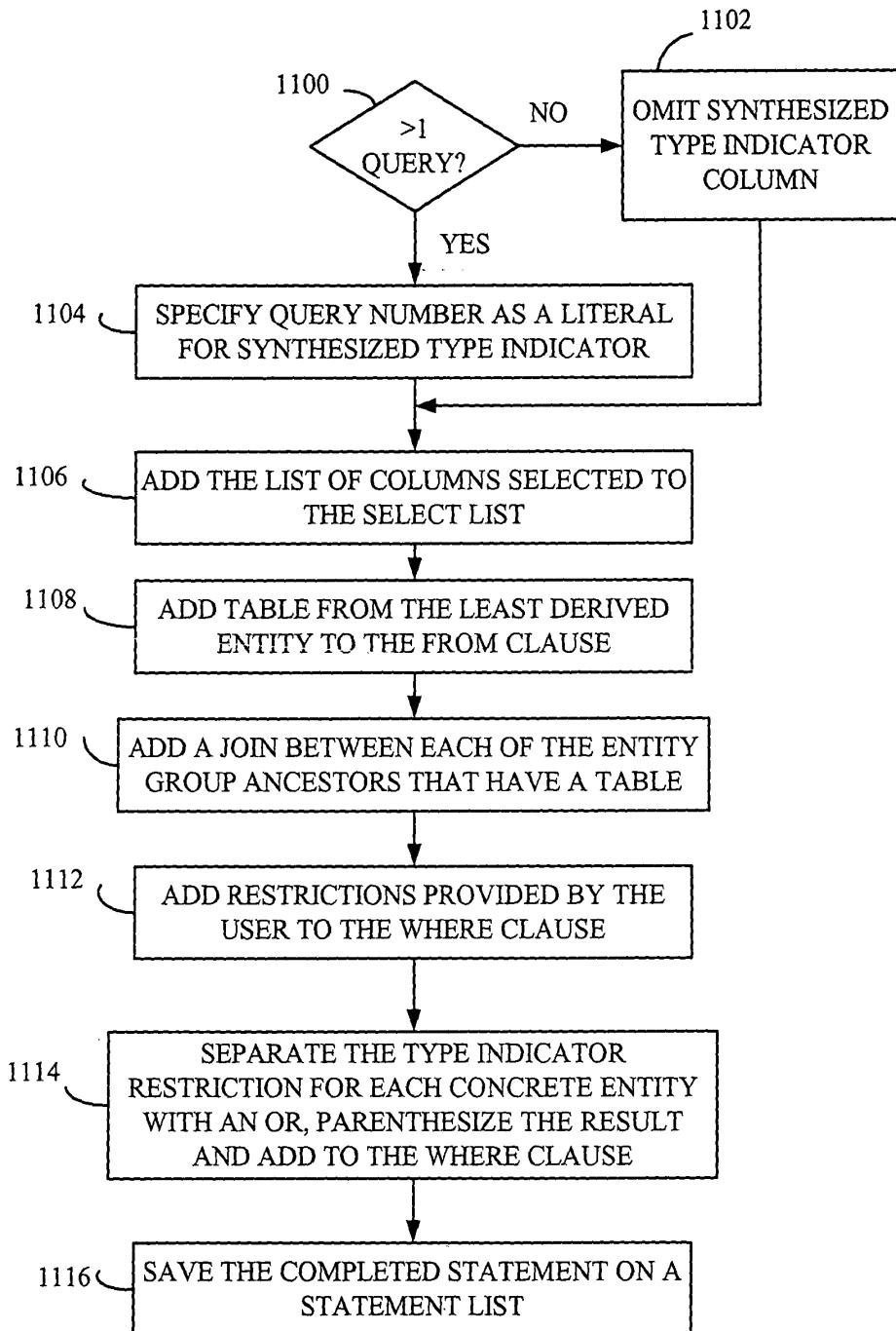


FIG. 18-2

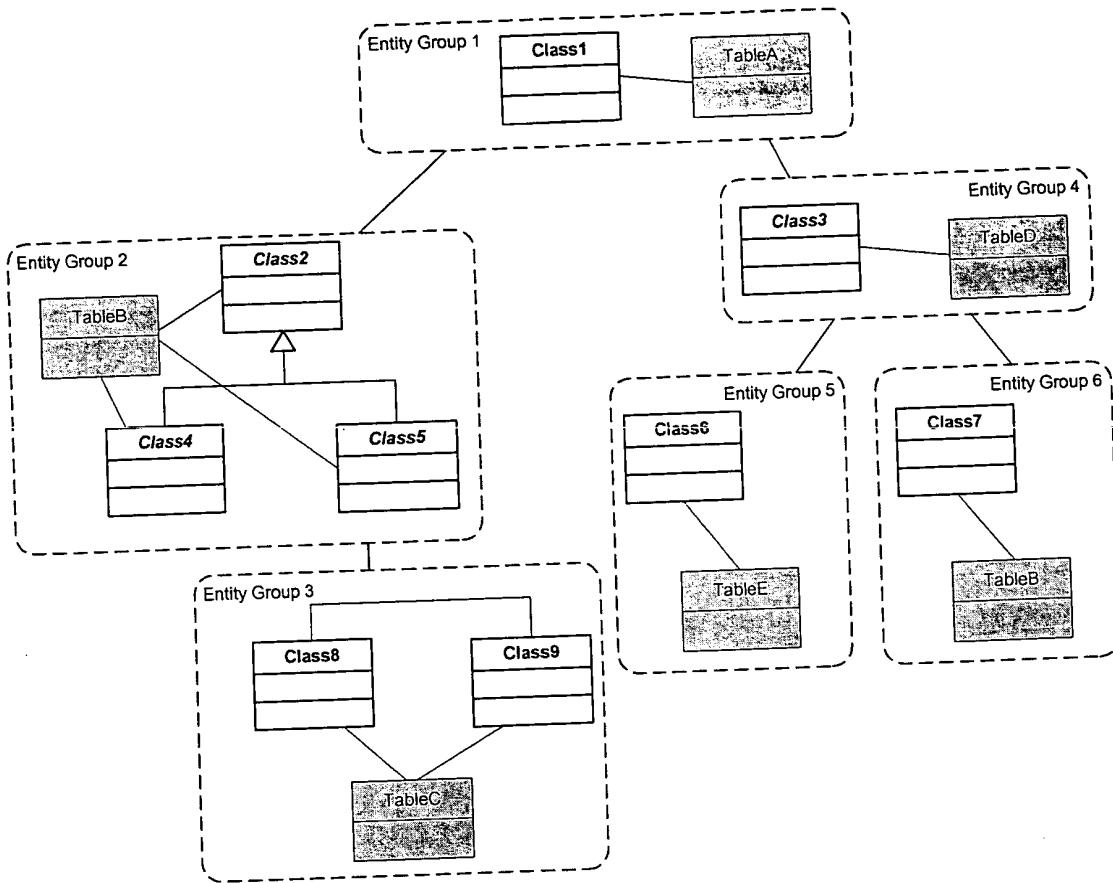


FIG. 19

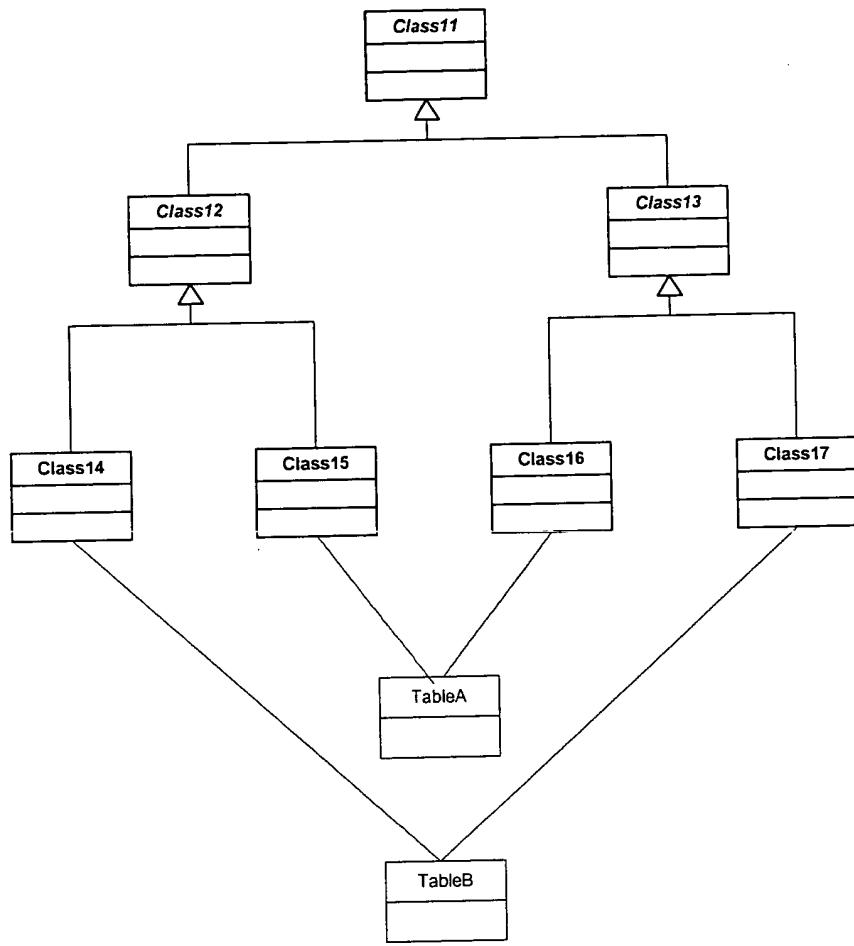


FIG. 20

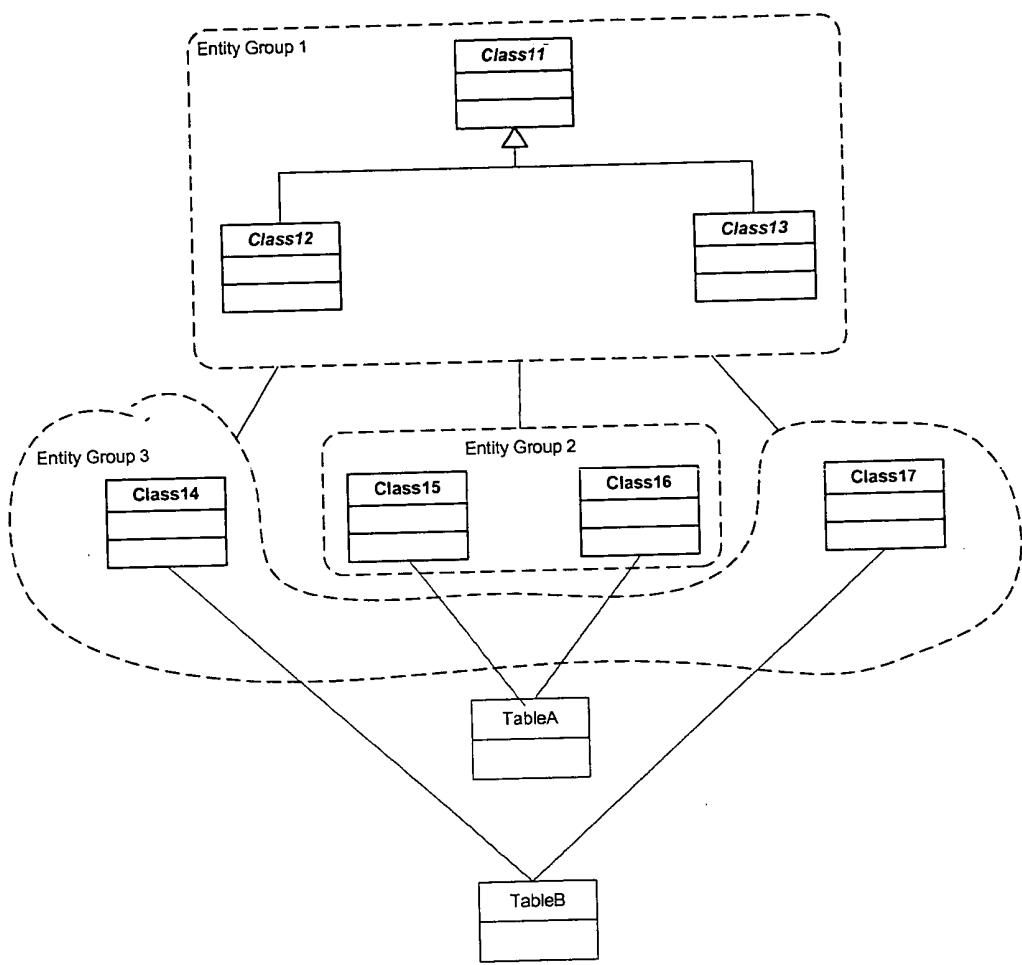


FIG. 21

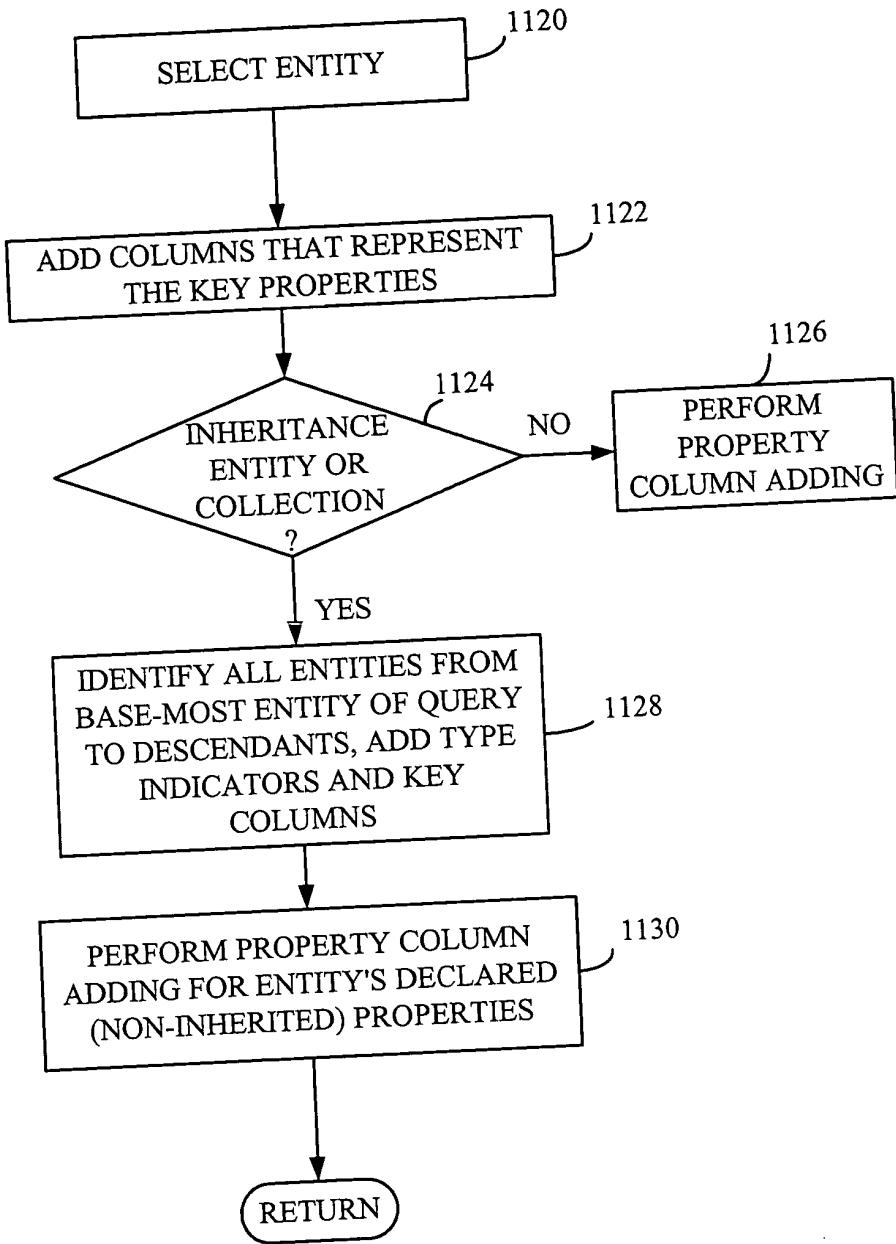


FIG. 22

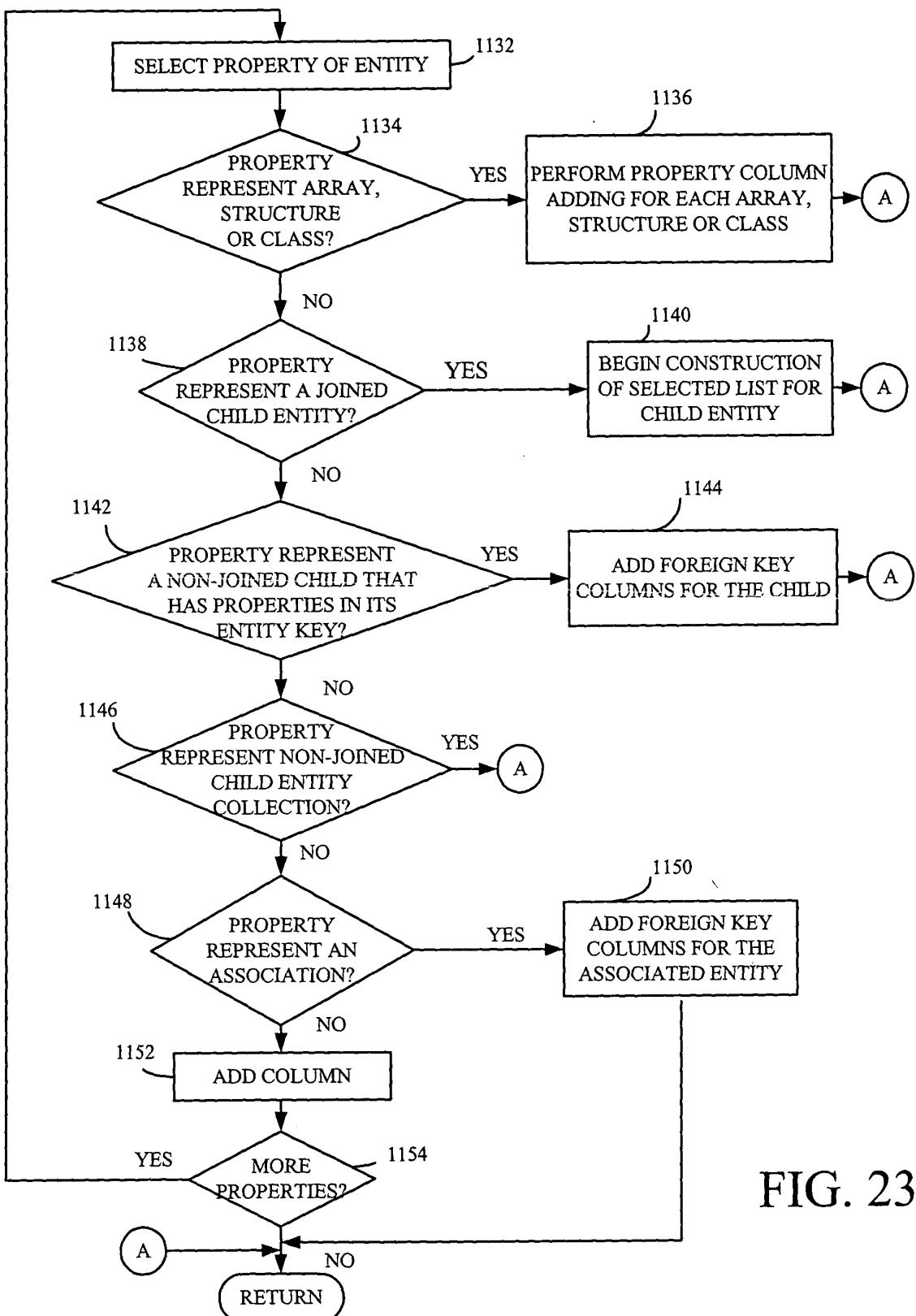


FIG. 23

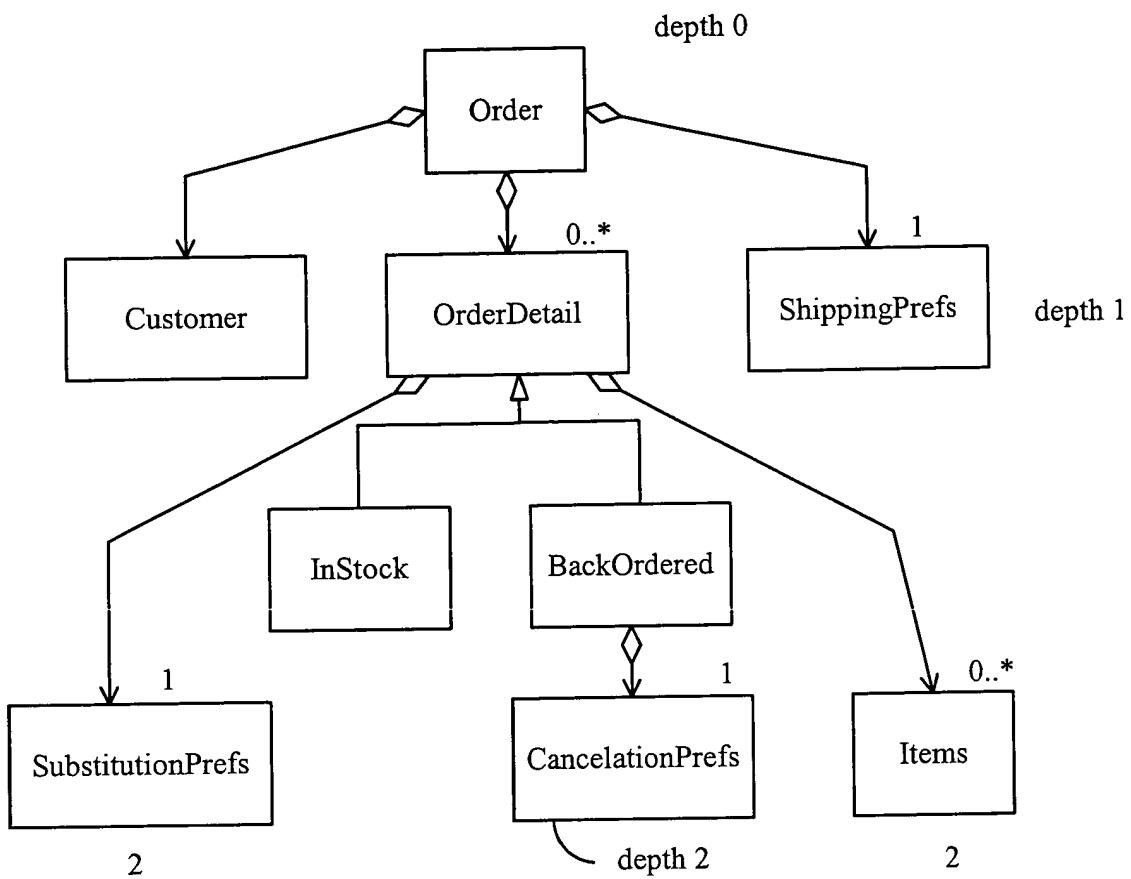


FIG. 24

FIG. 25

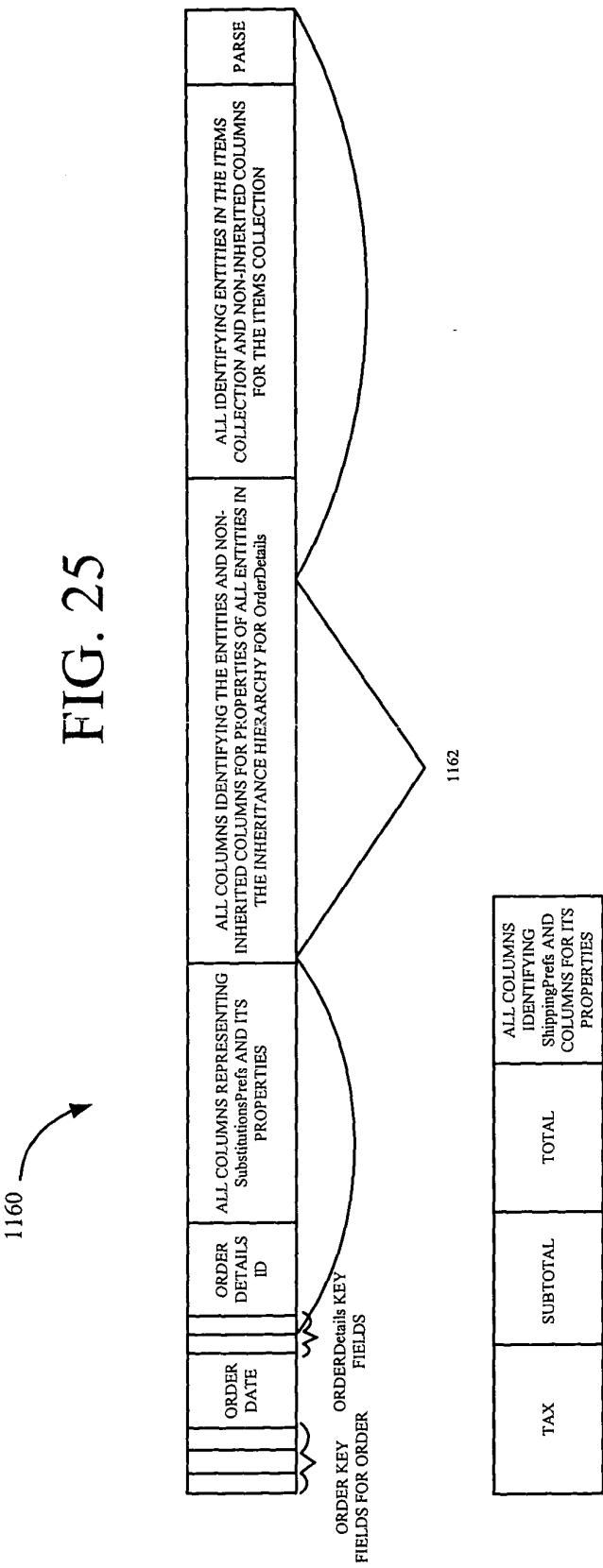


FIG. 25A FIG. 25B

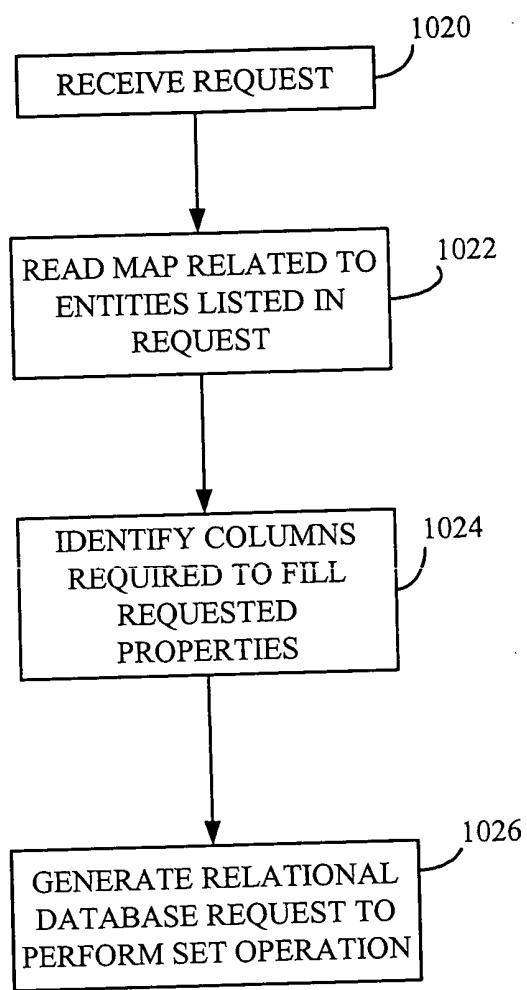
```

1002    class Order {          // these fields are mapped to a database table
1003        ...
1004        public DetailCollection Details; // contains Detail objects
1005        public decimal Total;
1006    class Detail {          // these fields are mapped to a database table
1007        public long SequenceNumber;
1008        public Item Item;
1009        public decimal PricePerUnit;
1010        public decimal Quantity;
1011        public decimal Price;           // PricePerUnit * Quantity}
1012
1013    // the user describes the set operation they want performed in terms of objects
1014    Criteria.EntitySetUpdateCriteria(Criteria.EntityAlias(parentKey, typeof(Order)));
1015    // update the order// set Order.Total to the sum of each of the line item's price
1016    Criteria.PropertyAssignments(Criteria.Assignment((Property)"Order.Total",
1017        Criteria.Sum((Property)"Order.Details[].Price"))
1018    // indicates which orders to update; only those with detail price > 300
1019    Criteria.Where((Property)"Order.OrderDetails[].Price" > 300));

```

FIG. 26

**FIG. 27**



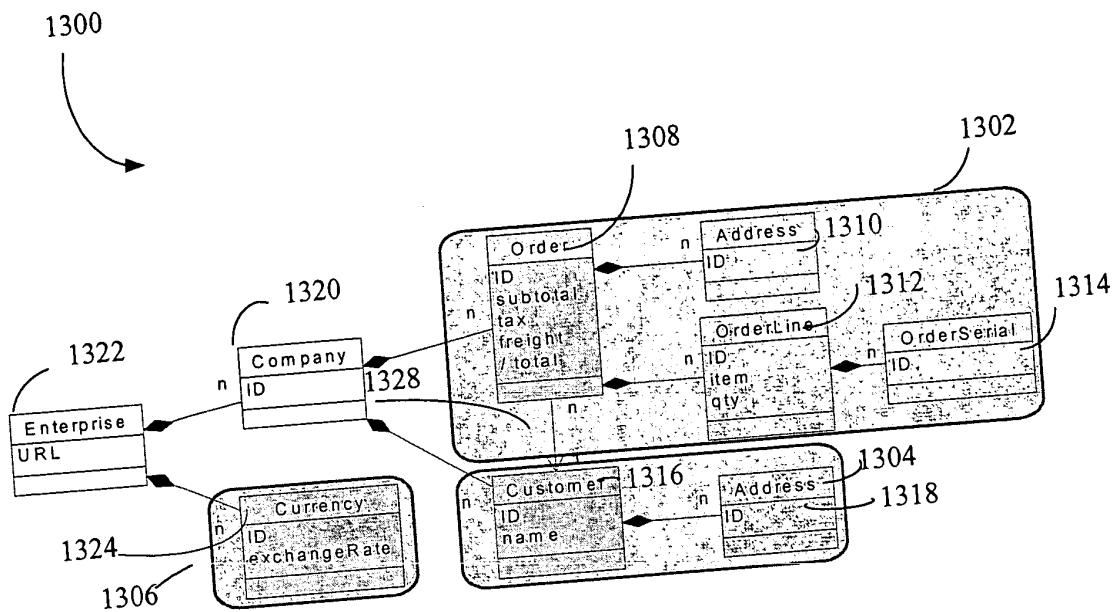


FIG. 28

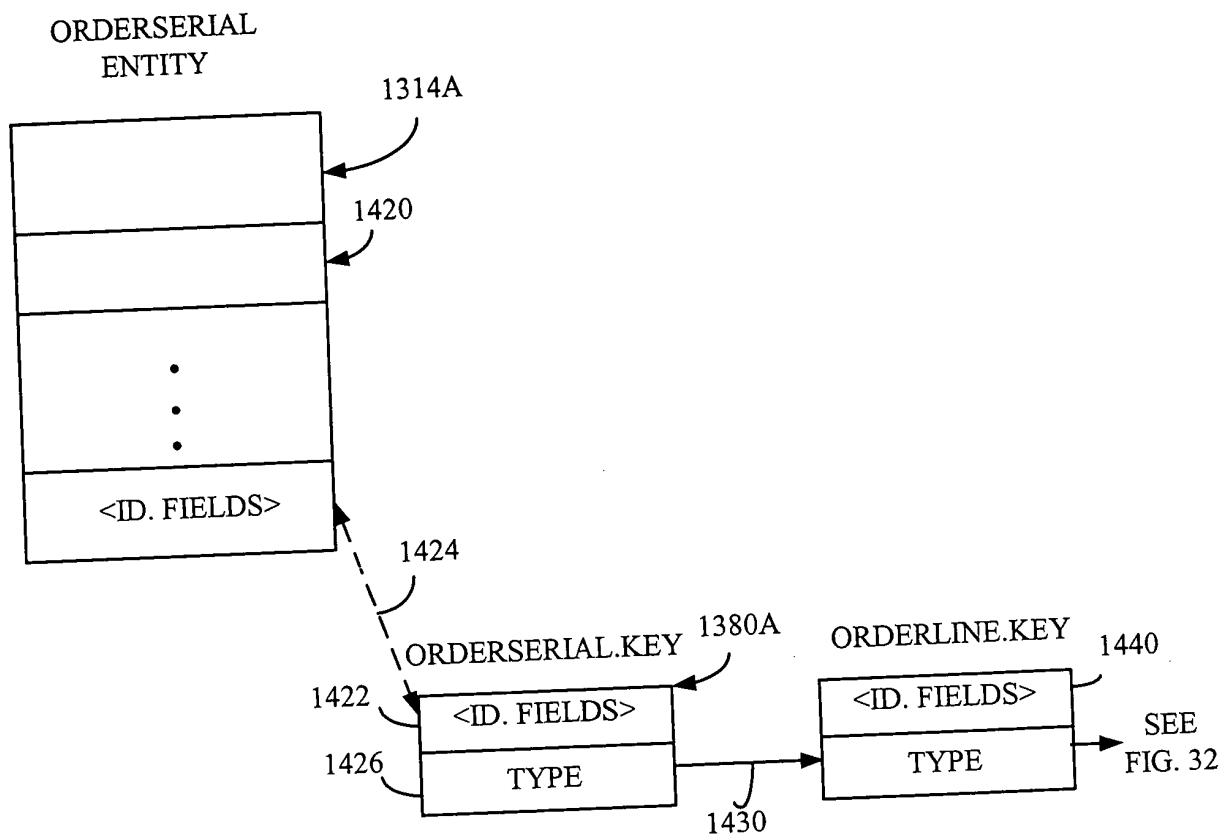


FIG. 29

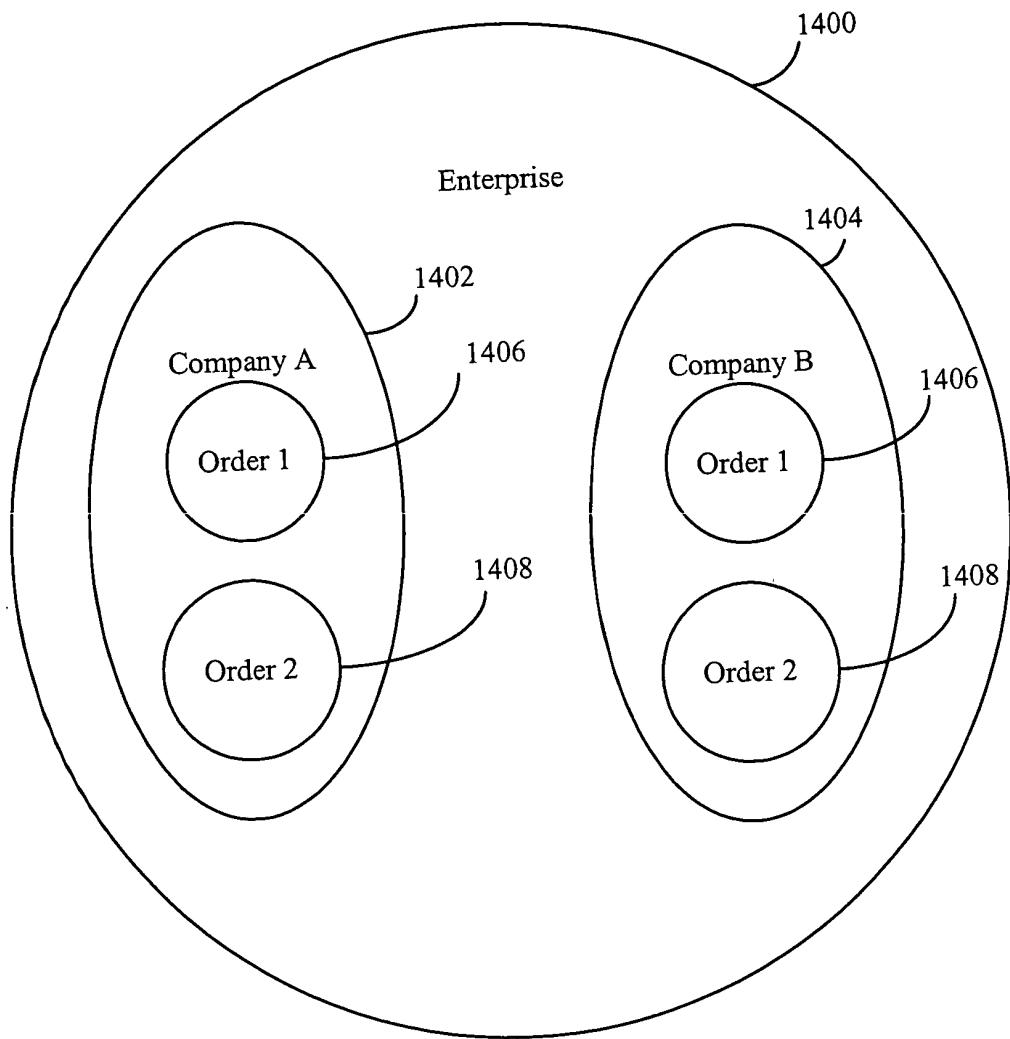


FIG. 30

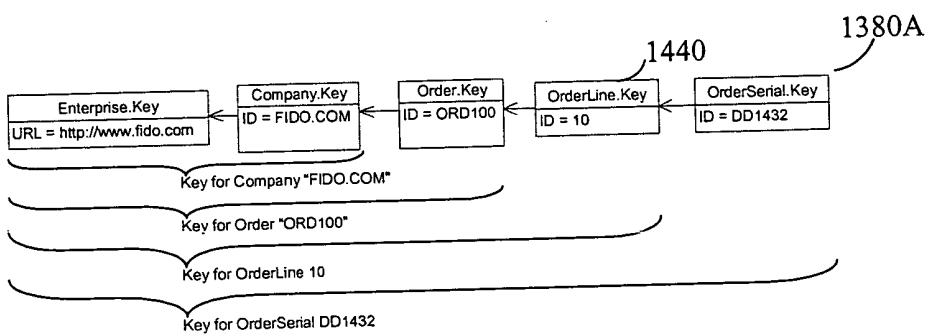


FIG. 31

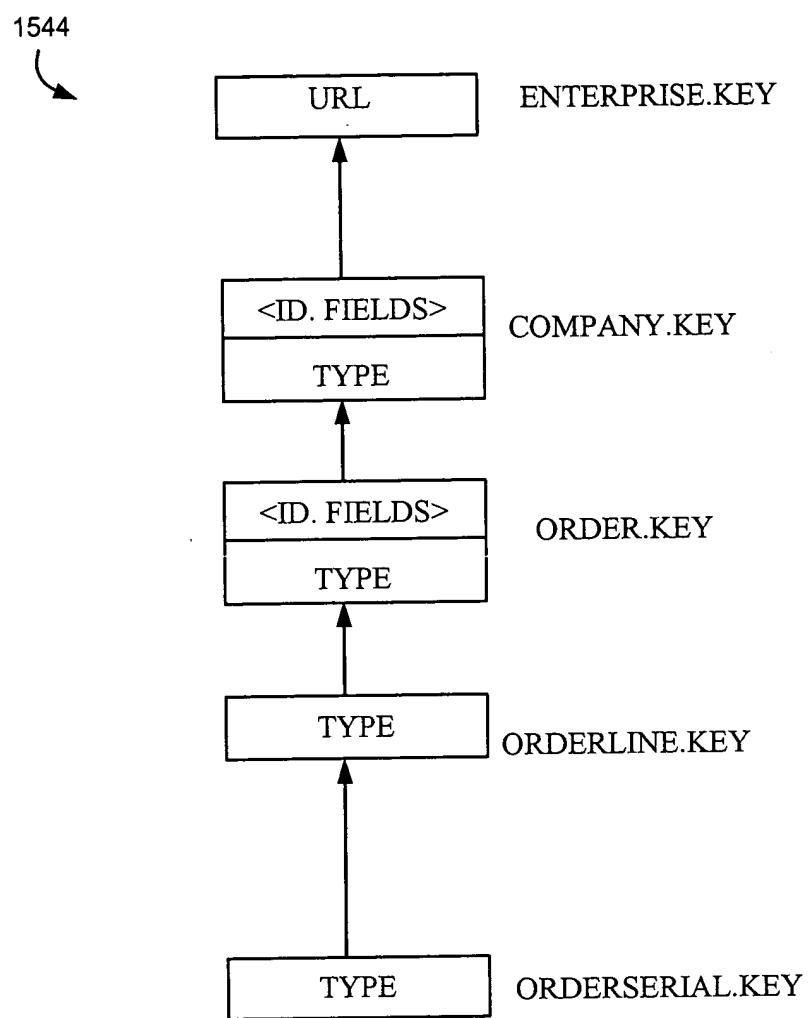


FIG. 32

1350



COMPANY_ID 1352	ORDER_ID 1354	ORDERLINE_ID 1356	SERIAL NO. 1358	OTHER COLUMNS	
• • •	• • •	• • •	• • •	• • •	• • •

FIG. 33